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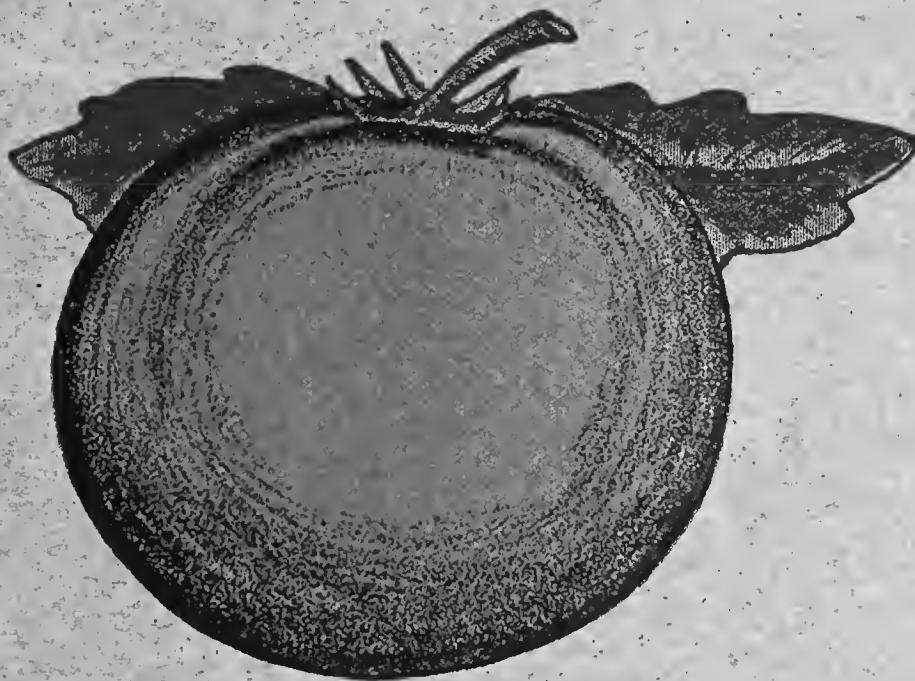
1937

U. S. Department of Agriculture

Twenty-Seventh Edition

# SEEDS

Season of 1937  
NEW EARLY RED



**TOMATO**  
The Peak Of Them All

**FARM MACHINERY**

**WISEMAN-DOWNS CO. INC.**

34 EAST PRATT STREET  
BALTIMORE, MD.

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## ORDER SHEET

WISEMAN-DOWNS CO., Inc.  
34 EAST PRATT STREET  
BALTIMORE, MD.

**“Quality Seeds That Grow”**

We shall at all times, put forth every effort to procure or have grown for us the very best seeds obtainable, as to quality, trueness to name and germination. Regardless of these facts, sometimes climatic or soil conditions arise over which we have no control and therefore:—We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs or Plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they must at once be returned.

WISEMAN-DOWNS CO. INC.

Your Name..... (Prefix Miss, Mrs. or Mr.)

(Prefix Miss, Mrs. or Mr.)

Post Office.....

Freight or Express (if different from P. O.).....

County of..... State of..... Date..... 1937

Amount Enclosed \$.....  
(Check, Money Order or Stamps)

KINDLY WRITE IN SPACE BELOW THE NAMES OF FRIENDS YOU THINK WOULD LIKE OUR CATALOGUE

## Plant (SEEDS THAT GROW)

**A**ND be assured of good crops, and by this we mean not only (SEEDS THAT GROW), but seeds that are true to name and of the very highest productivity. Seeds that have been line bred from single plant selection up to the highest quality test. Seeds that we have been supplying our customers for the past twenty-seven years and by which we have made many friends. When you plant our (SEEDS THAT GROW) please bear in mind that your crop growing interests are ours and we are not going to sacrifice our reputation by selling seeds that we know will not grow. OUR SEEDS DO NOT COST, THEY PAY. We also wish to call your attention to the fact that our line of FARM MACHINERY is the most modern and up to date. This is particularly true of THE JOHN DEERE PLOW CO.'S LINE of which we have complete stock at all times. THE STANDARD ENGINE CO.'S LINE of Garden Tractors are in a class to themselves. THE LETZ MFG. CO.'S LINE of Feed Grinders and Roughage Mills are outstanding. THE MYERS SONS CO. LINE of Pumps, Hay Tools, etc., are built up to quality and are sold strictly on their merits. You will also find listed in this catalogue a complete line of POULTRY SUPPLIES, GARDEN TOOLS, INSECTICIDES, etc. In handing you this catalogue; we wish to thank you for your past favors by which you have enabled us to build up our business to its present high standard; and hoping that we may continue to serve you.

WISEMAN-DOWNS CO., INC.

## BUSINESS RULES AND PROCEDURE

**PLEASE ORDER EARLY**, thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind; if any greater delay is likely we will advise. If goods ordered do not arrive in a reasonable time, send a copy of the order with letter of inquiry. This will be a great help in expediting adjustment.

**THE ORDER BLANKS** accompanying this catalogue will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

**PATRONS IN SIGNING ORDERS** are requested to use prefix Mr., Mrs. or Miss. Married ladies should invariably use husband's initials.

**WE GUARANTEE THE SAFE ARRIVAL** in United States of all goods forwarded by express.

**WE FORWARD AS CUSTOMER DIRECTS** by Parcel Post, express, freight or steamer, in accordance with our offers elsewhere in this catalogue. When no shipping instructions are given, we send according to our judgment.

**ALWAYS GIVE FULL ADDRESS.**—This is very important, yet is sometimes omitted by customers; in fact, some orders and letters reach us lacking both name and address.

**REMITTANCES** may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash send in a Registered Letter. We must decline sending goods

C. O. D. unless 25% of their value accompanies the order. Plants we do not ship C. O. D.

**ACCOUNTS.**—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore city reference preferred on account of the shorter delay pending investigation.

**WE MAKE NO CHARGE FOR SHIPPING AND CARRIING** of goods to any railroad station, steamship line or express office in Baltimore City proper.

**WE MAKE NO CHARGE FOR PACKING**, except special for foreign shipments, as tin-lined cases, double sacks, etc., then we charge cost. Cloth bags we charge for, viz.: A peck, 10c;  $\frac{1}{2}$  bushel, 12c; 1 bushel, 15c; 2 bushels, 30c. All Grass Seed bags are furnished free excepting for Timothy and Clover.

**QUESTIONS AND CORRESPONDENCE.**—We endeavor to answer promptly all letters of inquiry—which should be on separate paper from orders—but we cannot undertake the planning of gardens and grounds.

**ERROR IN THE FILLING OF ORDERS.**—We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

## TO PREPARE A COLD FRAME

The Cold Frame is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the Winter with marsh hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 or 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hot-bed is good for the purpose. The frame is prepared in the Fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf and the soil made firm around the plants. The seed is usually sown, in this vicinity, from the 15th to the 20th of September. The young plants will be ready to transplant in about 25 to 30 days. During cold nights and

## DIRECTIONS FOR MAKING A HOTBED

In this vicinity from the first to the latter part of March is quite early enough to make a Hotbed. The time must vary according to the latitude. Provide a quantity of fresh horse manure from the stables, and add to this, if they can be had, one-third to one-half its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers and form into a large pile, so that fermentation will proceed even in severe cold weather. In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation or pit  $2\frac{1}{2}$  feet deep and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame for sashes should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is

stormy days the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more and closer protection than Cabbage, and it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual freezing, so that when Spring comes they are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Raddish may be sown in a Cold Frame in the Spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

## TO PREPARE A COLD FRAME

placed in the pit and trodden down firmly in layers to the required depth, 2 to  $2\frac{1}{2}$  feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 degrees or more, which is too hot to sow the seed in, but in two or three days it will subside to 90 degrees or a little less, when the soil may be put on to the depth of 6 to 8 inches. The heat may be readily ascertained by plunging a thermometer into the manure. The soil should be of well-rotted sod (or common garden soil will do), mixed with about one-third of fine old manure, and in this the seeds may be sown thinly in drills 2 or 3 inches apart, and afterwards (as soon as out of the seed leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back. Water with tepid water whenever necessary, and during cold nights and snow-storms keep covered with mats or board shutters. Tomatoes, Peppers and Egg-plants should be sown in a separate frame from Cabbage, Cauliflower and Lettuce, as they require more heat. The same directions may apply to Hotbeds made on the surface of the ground, except that the manure should be at least a foot wider on all sides than the frame.

## "SEEDS THAT GROW"

### Artichoke

**CULTURE.**—Plant the seed during March or April in hot-beds or some similar manner that the plants may be protected. When the plants are large enough and all danger of frost is past they should be transplanted in rows about 4 feet apart and about 2 feet in the row. They should be protected during Winter with a heavy dressing of manure or straw.

#### GREEN GLOBE

Plants of medium height with large thistle-like medium deep green foliage; grown for the undeveloped flower heads which are cooked like asparagus. Pkt. 10c, oz. 40c.

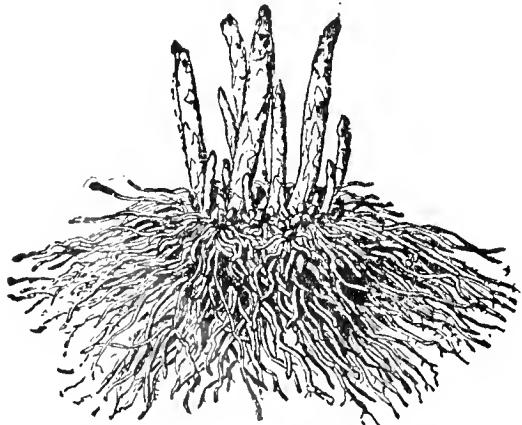
### Asparagus



This can be grown from seeds or roots, the latter preferred. It is one of the earliest and most delicious of Spring vegetables. Seeds should be sown thinly in early Spring in rows 1 foot apart. Thin out the weakest plants so the remainder will be 4 inches apart. When 1 year old transplant in the permanent bed, from where it can be cut 3 years later. One ounce of seed will sow about 60 feet of drill. About 400 plants to the ounce. Asparagus may be grown in almost any soil or situation, but special success is attained in thoroughly enriched, deeply dug sandy loam. Beds cared for improve with age, lasting for many years.

#### MARY WASHINGTON (Rust Proof)

This variety was recently introduced by the U. S. Dept. of Agriculture and has grown into favor so rapidly that we take great pleasure in offering it to our most critical trade. Our stocks of this variety come from carefully selected roots from the original fields as introduced by the Dept. of Agriculture, and is the best stock available for seed purposes. The main feature of this variety is its rust resisting qualities. It is also a large variety and very prolific, of a good greenish color. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.00.



### Asparagus Roots

#### TWO-YEAR OLD ROOTS

4,000 to 6,000 roots are required for an acre.

#### MARY WASHINGTON

Per 100 ..... \$1.25      Per 1,000 ..... \$9.00

### Dwarf Green Pod Beans

**CULTURE.**—Sow the seed after all danger of frost is past, in rows 2 feet apart. Soil should be warm and well prepared. Frequent, shallow cultivation while plants are young is advisable. For succession plant every 10 days or 2 weeks until midsummer. One pint will plant 100 feet of row, one bushel will plant one acre. Plant about one and a half inches deep.

#### FULL MEASURE

This new green-podded bush bean is a heavy cropper and very early, of fine shape, stringless and good quality. Its hardiness and great productiveness make it one of the very best bush beans. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.25.

#### NEW STRINGLESS

This variety is fast becoming one of the most popular beans in America. In earliness it is in the lead; in quality it is unexcelled, and as a cropper it is unrivaled. It is stringless in reality as well as in name. It is an abundant cropper, and the pods are full, round, fleshy and nearly straight. In length of pod it averages a little longer than Valentine; light green in color, and extremely handsome on the market bench. Quality is all that can be desired, so that for home use it is just the thing, and as it is a great cropper, market gardeners everywhere are finding it very profitable. We earnestly recommend it both for market and home use. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.



#### New Stringless Green Pod GIANT STRINGLESS

A very popular variety with the market gardeners. Since its introduction a few years ago it has become very much in demand. Pods round and of a beautiful color, very early and prolific. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.

#### BURPEE'S STRINGLESS GREEN POD

An exceedingly productive and very handsome sort. Vines vigorous and spreading. The pods mature a few days later than those of Stringless Green Pod, average about  $\frac{1}{4}$  inch longer and more nearly straight. The quality is very good for home use; suitable also for the market. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

**INOCULATE THESE SEED WITH "NITRAGIN" FOR  
BIGGER AND BETTER CROPS.**

**COSTS ONLY A FEW CENTS PER ACRE.**

See Page 40.

*All Prices Subject to Change Without Notice*

## Dwarf Green Pod Beans

### STRINGLESS BLACK VALENTINE

A very hardy variety, as it will withstand slight frost. Pods long and well formed. Very prolific and positively stringless. Very early; maturing in 42 days. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.

### BOUNTIFUL

An extra early flat podded sort. Absolutely stringless and of a very good quality. Very productive and a splendid shipper. Can be highly recommended to the trucking trade. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

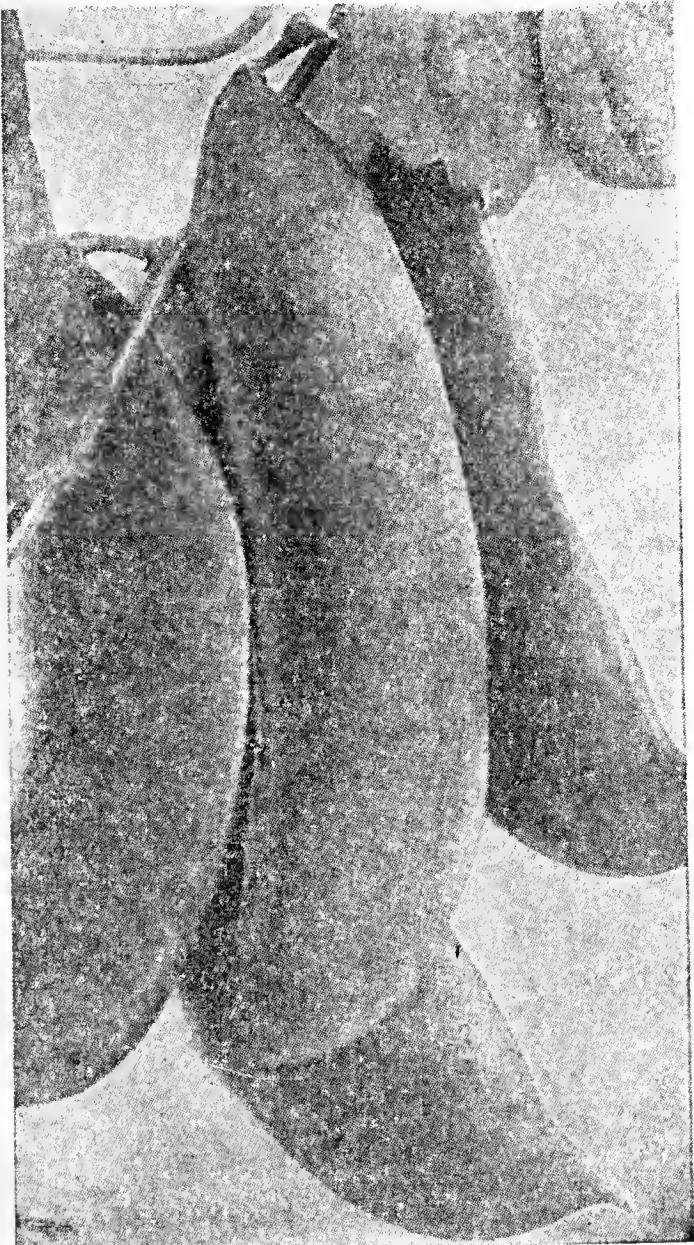
### DWARF HORTICULTURAL or CHERRY

Vines very productive, compact, upright, with large leaves; pods medium length, cylindrical, curved, with splashes of bright red on a yellowish ground. Used as a green snap and also as a shell bean for winter use. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.

## Dwarf Wax Pod Beans

### SURE CROP WAX—STRINGLESS

A selection from Currie's Rust Proof Wax, having black seed and differing from that sort in that it is stringless, more hardy, rust-resistant and a little later. Pods flat, and average an inch longer and somewhat thicker than Currie's and with a stronger plant growth. Very desirable. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.



Enormous Pole Lima

### CURRIE'S RUST-PROOF BLACK WAX

The earliest. Habit upright and robust, holding their pods well from the ground. Foliage remarkably vigorous and healthy. Pods long, flat and straight; beautiful golden color; unequalled for productiveness. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

### PENCIL POD BLACK WAX

Pods round and of a uniform rich yellow color; tender, very brittle and stringless. Plants are vigorous, stocky and very productive. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

## Pole Beans

### LAZY WIFE

As this can be used as a shell or green bean, makes it very valuable for every home gardener as well as the market gardener. Pods are large and mealy; ripens early and very prolific. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

### KENTUCKY WONDER

Vine vigorous, climbing well and very productive; dry beans, long, oval, dun-colored; green pod, 9 and 10 inches long. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

### HORTICULTURAL or WREN'S EGG

Vines moderately vigorous, bearing broad pale green pods. Used either in the green state or as dried for winter. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00.

## Pole Lima Beans

**CULTURE.**—Plant when all danger of frost or cold nights are over. Don't be afraid to put a liberal number in a hill, as this is cheaper than replanting. Set poles 4 feet apart each way. Thin out to 3 plants to a pole. One quart will plant 100 hills; 12 to 15 quarts per acre.

### ENORMOUS POLE LIMA

Wonderfully prolific. The big, broad, thick, meaty beans holding their fresh greenish color, even when dried, are crowded tightly in the pods. The vines are so tremendously prolific that the handsome pods seem literally crammed on to every inch of the branches. Plant this variety and you will be pleased with the results. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.25.

### KINK OF THE GARDEN

Vines very vigorous and productive. Pods 5 to 6 inches long, filled with 4 or 5 immense white beans of the finest quality. On account of its large pods, it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than 2 vines are left to grow on a pole. Seed very large, ovoid, flat, with slight greenish tinge. Pkt. 10c, pt. 20c, qt. 35c, pk. \$2.00.

### DREER'S IMPROVED or CHALLENGE

Vines stout, vigorous and productive. Pods about 4 inches long, shorter and comparatively thicker than those of the other pole limas, and contains 4 to 5 beans, which are large, thick, white and of the best quality. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.50.

### EXTRA-EARLY JERSEY

This is an extremely early variety, ripening 2 weeks earlier than any other sort. Pods are thin and very easily opened. The vine is very productive and exceptionally hardy and vigorous. The quality of the bean, its size and beauty make it one of the best. Pkt. 10c, pt. 20c, qt. 35c, pk. \$2.00.

### CARPENTERIA

This new bean, of recent introduction, is rapidly coming to the front as a favorite with market gardeners and truckers generally. While it has all the good qualities of the King of the Garden, it is even better, as the beans have a better appearance. Color is a bright green. It is early, yet keeps bearing until frost. Pods are filled with 4 to 5 large mealy beans, of the very finest flavor. Vines are vigorous and strong in growth, producing a number of pods, well filled. Pkt. 10c, pt. 20c, qt. 35c, pk. \$2.00.

## Bush Lima Beans

**CULTURE.**—Soil should be of a rich loam. Plant in rows 2 feet apart and 6 inches in the row. Plant after all danger of frost has passed. A top dressing of well-rotted stable manure or some good fertilizer will help wonderfully.

### FORDHOOK BUSH LIMA

An improved dwarf lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing 3 to 5 large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.50.

### DREER'S BUSH LIMA

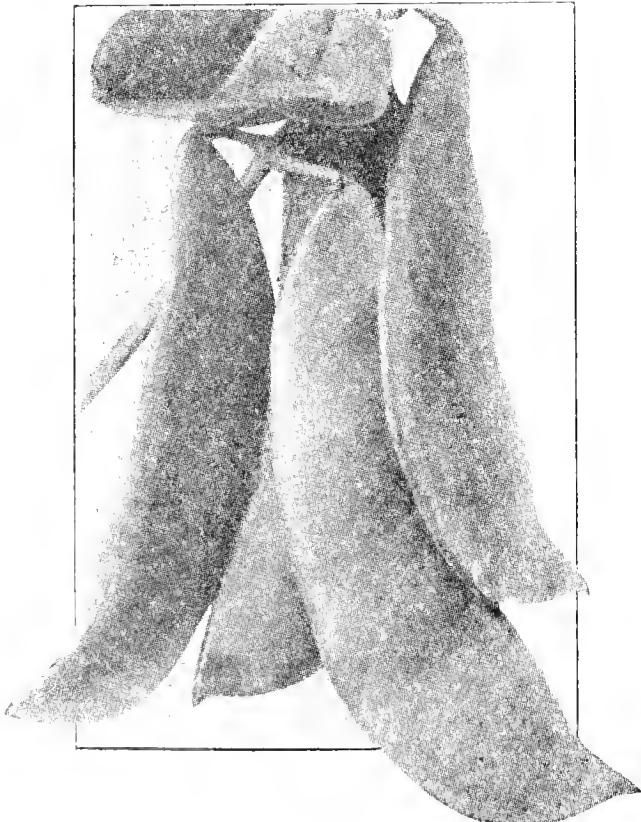
Dwarf variety of Dreer's Pole Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 50 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.50.

### BURPEE'S IMPROVED BUSH LIMA

Will outyield the old type Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the large Pole Lima, are pure white. Pkt. 10c, pt. 20c, qt. 35c, pk. \$2.25.

### HENDERSON'S BUSH LIMA

Also known as Wood's Prolific. These are very valuable because they do not need poles, and being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost. Pkt. 10c, pt. 20c, qt. 35c, pk. \$2.25.



Burpee's Improved Bush Lima

### BEETS — MANGEL

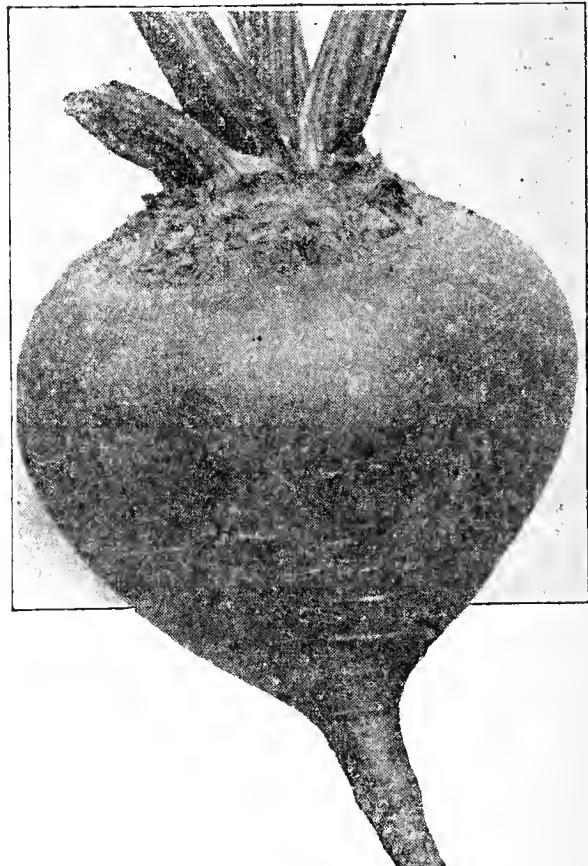
**MAMMOTH LONG RED MANGEL.**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long red Mangel. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 50c, 5 lbs. \$2.00.

## Beets

**CULTURE.**—The soil best suited for Beet culture is that which is rather light and well enriched. Sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked. When the plants are large enough thin out to 4 inches apart in rows. One ounce of seed will sow 100 feet of drill. 6 to 8 pounds to an acre. ,

### EARLY WONDER

Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Very popular with market gardeners for early or late planting. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 90c.



Lexington Market Beauty

### LEXINGTON MARKET BEAUTY

The best of the larger sorts. It succeeds equally well at all seasons; the tops make an upright growth, thus allowing of planting in close rows, which is a valuable feature where space in the garden is limited. The quality is excellent, tender, sweet and quite free from tough fibre. The color is most attractive, being a deep blood red. The root is somewhat globe shape. For the trucker or market gardener it cannot be beaten. It is also the best for canning on account of its excellent flavor. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 90c.

### DETROIT DARK RED

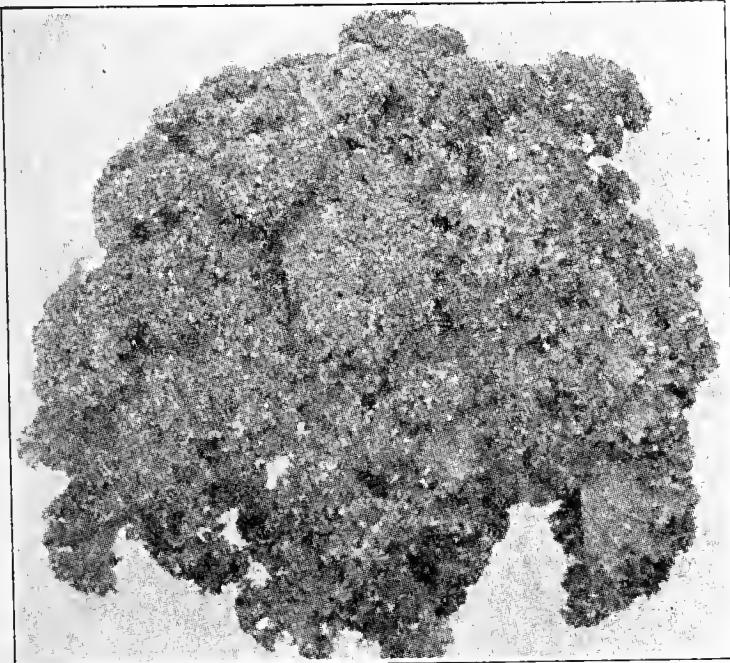
The uniformity of size, shape and fine appearance puts this variety at once among the leaders of this most desirable of all vegetables. Tops small and upright, admitting of close planting. Roots medium in size, globular or oval and very smooth; skin a dark blood red; flesh deep bright red, fine-grained, crisp, tender and sweet, remaining so long after many sorts become woody. Our special stock of this variety shows no white zones. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 85c.

### CROSBY'S EGYPTIAN

A carefully selected strain of Egyptian, as early as the original, but larger, thicker, smoother and of better quality. Flesh deep blood red. It is a rapid grower, attaining a usable size quicker than any other variety, and does not become woody with age. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 85c.

## Borecole

Extensively grown in this locality and also in the South during the Fall, Winter and Spring. The plant is more hardy than cabbage, and makes excellent greens for Winter and Spring use. The quality is improved rather than injured by frost. One ounce of seed will sow a drill of about 150 feet. Should be grown like cabbage. The lower leaves are generally stripped and this allows the plant to continue growing to furnish more during the season.



Dwarf Curled Scotch

### DWARF GREEN CURLED SCOTCH

Plant low and compact, but with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss. One of the best sorts for use, when well grown and cooked is one of the most palatable of vegetables. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### DWARF CURLED SCOTCH

(Blue Strain)

Grows very similar to above, except that the low growing, moss-curled leaves are of a dark blueish green color. Extremely hardy. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

### TALL GREEN CURLED SCOTCH or HARDY WINTER

This is the most popular variety for market gardeners and the home garden as well, in that it grows taller; about 18 inches to 2 feet, bearing long plume-like light green leaves. Deeply cut, finely curled at edges. Very hardy. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.



Brussels Sprouts

This vegetable is used in the Fall and early Winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts, an inch or two in diameter, formed on the stalk at each leaf joint. Culture is the same in all essentials as the cabbage, except the leaves should be broken down in the Fall to give the little heads more room to grow.

### IMPROVED TALL

Produces very many good sized solid round sprouts, of the best quality. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

## Swiss Chard or Spinach Beet

Plant the seed about the same as beet seed; in rows about 12 to 18 inches apart, when the plants are large enough, thin out to about 6 to 8 inches in the row. One ounce of seed to 100 feet of row.

### GIANT LUCULLUS

Large, smooth leaves with silvery white stems, which are tender and of fine flavor. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### FORDHOOK GIANT

A new variety with curled leaves like a Savoy cabbage. The plant grows nearly two feet high. The ribs are quite large, white, and of fine quality. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## Brocoli



Italian Calabrese large head, like cauliflower, consisting of a compact cluster of blueish-green heads. Plant and grow much as you would cauliflower. Select moist soil or keep well watered. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

### TRUE ITALIAN CALABRESE or HEADING

Our stock of this variety comes direct from sunny Italy and is a strain of the highest type of this delicious vegetable. Just recently introduced in this country. There are several types of the broccolis and great care should be taken in buying the seed. The sprouting type is quite different from the cape or heading variety. The strain we offer is the truest, green headed Calabrese.

Produces a large head, like cauliflower, consisting of a compact cluster of blueish-green heads. Plant and grow much as you would cauliflower. Select moist soil or keep well watered. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

### ITALIAN or GREEN SPROUTING

Sometimes called and looks like Seven Top Turnip, but yields more abundantly. The seed should be sown about the middle of August in rows about 32 inches apart or broadcast at the rate of 2 to 3 pounds per acre. The sprouts will be ready for market about the latter part of February or the first part of March. Makes a most excellent salad with a taste peculiarly its own and commands a fancy price. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## Collards

### GEORGIA or SOUTHERN

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

## Cress

### AMERICAN IMPROVED UPLAND

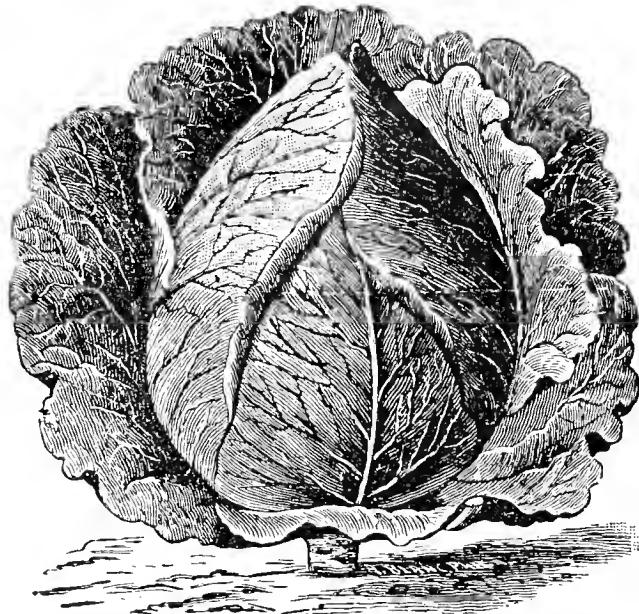
Sow the seed in drills about 18 inches apart; during August. The perennial variety that stays green all the year. Boil like greens or serve like salad. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### TRUE WATER

Highly esteemed as a salad during the Spring and Fall, and as a garnish for meats during the Winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water. Pkt. 10c, oz. 50c.

## CABBAGE

The requisites for complete success with Cabbage are: First, good seed. (In this crop the quality of the seed used is of the greatest importance; no satisfactory results can possibly be obtained when poor seed is planted.) Second, rich, well-prepared ground. (A heavy, moist and rich loam is most suitable.) Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Our Cabbage Seeds are American-grown, and we are certain that better seed could not be obtained, as they are grown from specially selected seed stock, and are not simply strains of other varieties, but true and distinct varieties. One ounce of seed to 100 yards of row.



### EARLY JERSEY WAKEFIELD

The earliest and surest heading of first early Cabbage. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness, not only to resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better and there are few as good. Plant compact, with few outer leaves, which are smooth and thick. Heads of medium size, solid, uniformly pointed and of excellent quality. The habit of growth and hardiness make it most desirable for early planting. Pkt. 10c, oz. 20c, 1/4 lb. 50c, lb. \$1.75.

### GOLDEN ACRE

This variety is of recent introduction, extremely early flat head. It matures much earlier than Copenhagen Market and heads much larger and more compact. Does not crack as easily. Few outer leaves, allowing closer planting. Matures in 82 days, making very solid heads, has done splendidly under dry weather conditions. Our strains of this variety are very uniform and can highly recommend it to the market gardeners. Pkt. 10c, oz. 30c, 1/4 lb. 75c, lb. \$2.50.

### CHARLESTON, or LARGE WAKEFIELD

A strain in which the plant is larger and a little later than Early Jersey Wakefield, the head being fully as solid, but less pointed and considerably larger. Leaves rather large, smooth and comparatively thick. Exceedingly hardy, and on account of its earliness and size of head, with market gardeners and shippers it is deservedly a very popular sort to follow Jersey Wakefield. The seed we offer can be depended on to produce uniformly fine, marketable heads. Pkt. 10c, oz. 20c, 1/4 lb. 50c, lb. \$1.75.

### COPENHAGEN MARKET

Very fine, nearly as early as Jersey Wakefield; stem short, heads large, round and solid, with few outer leaves of an upright growth. Our stock of this popular variety is very early, uniform and dependable. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.00.

### ALL HEAD EARLY

The largest of the early Cabbages, being roundish flat and very solid. Pkt. 10c, oz. 20c, 1/4 lb. 45c, lb. \$1.50.

### EARLY FLAT DUTCH

Very compact grower, with a medium-size, roundish, flat head, which is always solid. Pkt. 10c, oz. 20c, 1/4 lb. 45c, lb. \$1.50.

## ALL SEASONS

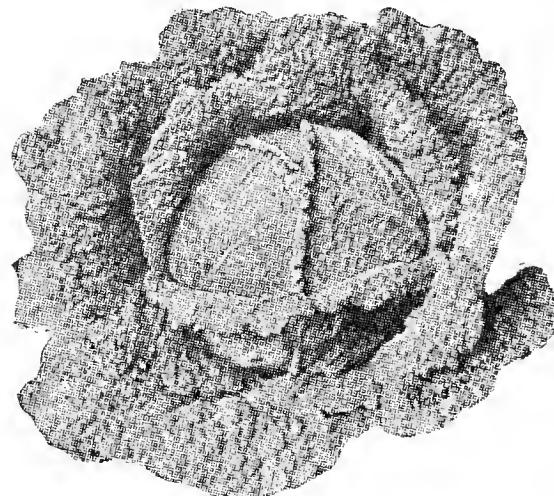
This forms a fine large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. Pkt. 10c, oz. 20c, 1/4 lb. 50c, lb. \$1.75.

### SUCCESSION

Very popular with the market gardener, producing enormous, uniform heads, and matures a few days later than Early Summer. Pkt. 10c, oz. 20c, 1/4 lb. 50c, lb. \$1.75.

### PERFECTION DRUMHEAD SAVOY

This is without a doubt the finest strain of the savoys on the market. No other winter cabbage can compare with it in flavor, particularly after it has been touched by frost when it is equal to cauliflower. Large heads. Leaves extremely curled. Beautifully blanched. Do not plant the seed till June or early part of July if you wish to have good hard heads as it will not head up hard during very hot weather. Pkt. 10c, oz. 20c, 1/4 lb. 60c, lb. \$2.00.



### PREMIUM LATE FLAT DUTCH

This variety of late Cabbage is a standard in all sections for Winter use. It makes a large, solid head, which keeps long without bursting, and is adapted to a more varied climate than probably any other variety. Pkt. 10c, oz. 20c, 1/4 lb. 45c, lb. \$1.50.

### RED ROCK

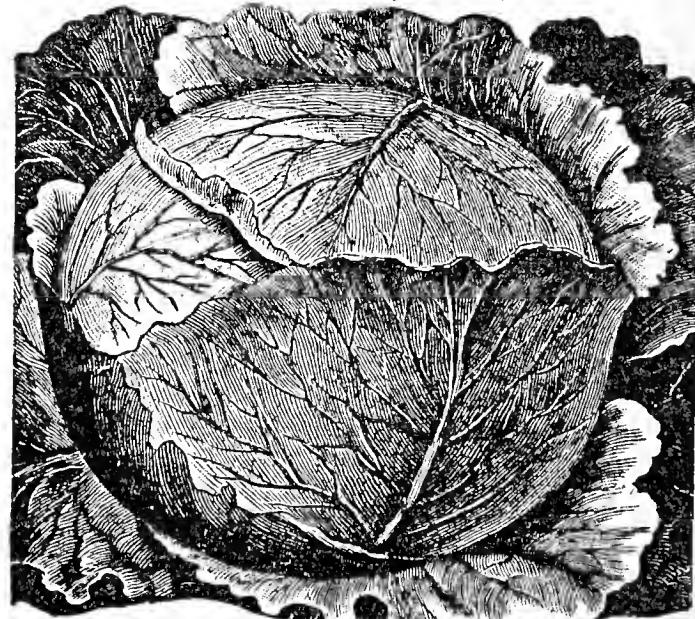
While late in maturing, this is the largest heading of all deep red varieties. Pkt. 10c, oz. 25c, 1/4 lb. 75c, lb. \$2.75.

### Chinese Cabbage

Sometimes called Celery Cabbage. A wonderful salad plant, growing 15 or 16 inches high, somewhat resembling Cos Lettuce or more like Swiss Chard. Plant the seed early in the Spring and again in July and August, transplanting 18 inches apart in 2 1/2 foot rows.

### WONG BOK

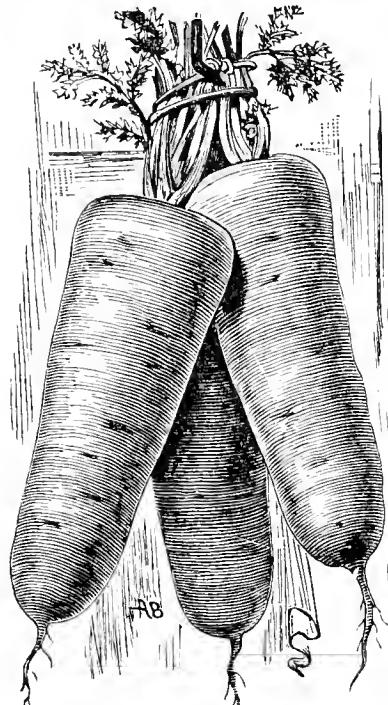
This is the most popular variety. The hearts blanch to a creamy white. Every leaf, including the outside ones, is delicate and tender. Pkt. 10c, oz. 20c, 1/4 lb. 50c.



Premium Late Flat Dutch

## CARROT

**CULTURE.**—While a sandy loam, made rich by manuring the previous year, is the best soil for the Carrot, any good land, if thoroughly and deeply worked, will produce satisfactory crops. It is advisable to sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowings as late as June 15. For table use, sow the smaller kinds early in rows 16 to 18 inches apart. For field culture, sow in drills 18 to 24 inches apart, using from 1½ to 3 pounds of seed to the acre. Cover ½ to 1 inch deep. One ounce of seed to 100 feet of row.



Danvers Half Long

### DANVER'S HALF LONG

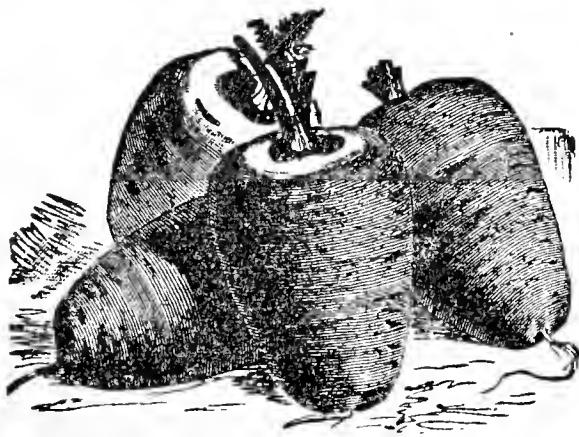
A half-long orange carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size. Roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. Flesh deep orange, crisp and tender. Although the roots of this variety are comparatively short, they produce as large a bulk as the longer field sorts and are more easily harvested. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 75c.

### W. D. CO.'s CORLESS

Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. One of the handsomest of the medium size sorts; excellent for the market gardener or home garden. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

### GUERANDE or OXHEART

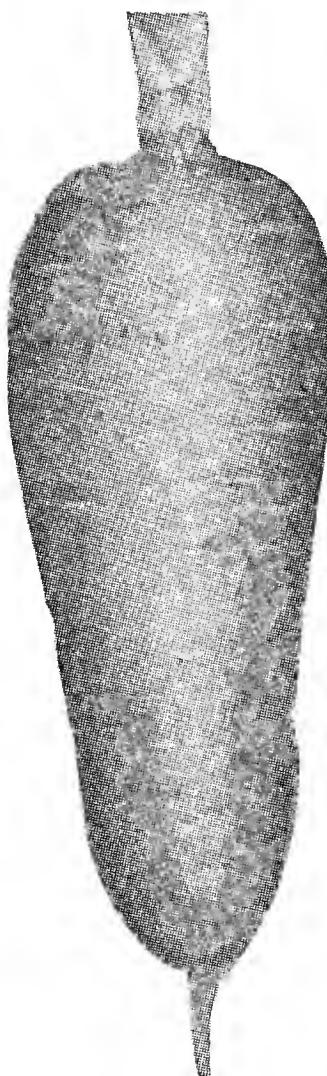
Especially desirable for soil so hard and stiff that long-rooted sorts would not thrive in it. Tops comparatively small. Roots 4 to 5 inches long, very thick, ending abruptly in a small tap root. Flesh bright orange, fine-grained and sweet. When young the roots are excellent for table use, and when matured are equally good for stock feeding. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 75c.



Guerande, or Ox Heart

### CHANTENAY or PRIDE OF THE MARKET

Very productive, medium early and of excellent quality. Tops medium-sized; necks small. Roots thick, 5¾ to 6 inches in length, uniformly half-long or stump-rooted, but tapering slightly; smooth, deep orange color. Flesh very crisp and tender. Although a medium-early sort, the roots are suitable for use nearly as early as any. One of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it very desirable as a field sort. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.



Chantenay, or Pride of the Market

### IMPROVED LONG ORANGE

The roots of the strain we offer are very deep orange, long and comparatively thick, often 12 inches in length, and 3 inches in diameter at the crown, tapering regularly to a point. Tops small for the size of the root. Suitable for table use as well as stock feeding, combining great productiveness with uniform shape and fine-grained, sweet flesh. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

### RED CORE CHANTENAY

This is a distinct improvement over the well known Chantenay especially in color, texture, and quality of flesh and has been accepted with much enthusiasm particularly by shippers of fresh vegetables and by canners. Roots deep reddish-orange; 5½ to 6 inches long, 2¼ inches thick at the shoulder, tapered, stump-rooted; core reddish-orange, almost the same color as the flesh and so inconspicuous as to make the term coreless seem appropriate; flesh fine grained and tender; of sweet, delicate flavor. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 90c.

### EARLY SCARLET HORN

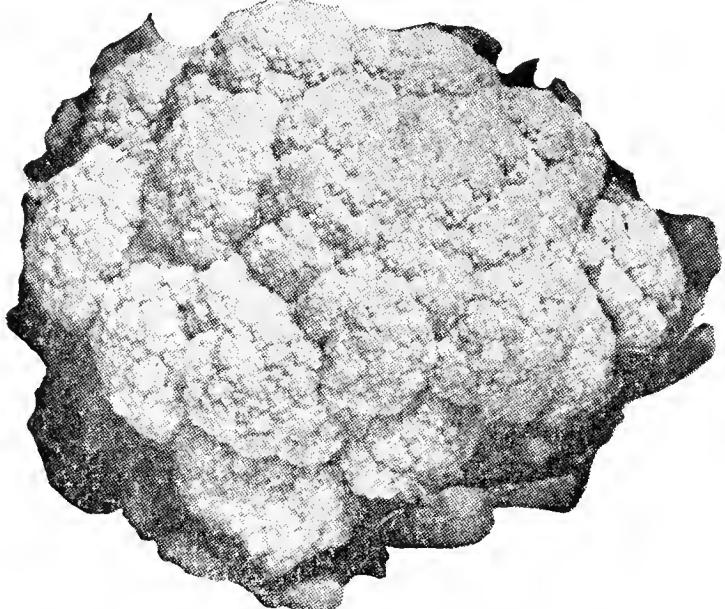
Popular for early market. Tops small. Roots reddish-orange; 3 inches long, 1½ inches at the shoulder and tapered to about 1 inch thick at the blunt end; flesh reddish-orange, fine grained, sweet, and tender. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

### CALIFORNIA BUNCHING

Tops short, foliage rather coarsely cut and stems medium size and strong. Roots at maturity are 1½ by 8 inches in size, almost cylindrical, with rounded shoulders, and are well stumped. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

## Cauliflower

**CULTURE.**—For Spring and early Summer crop, sow in March or early in April in hotbed and transplant in cold frame when sufficiently large to handle. As soon as danger of hard freezing is over set in open ground in rows 2½ feet apart and 18 inches apart in the row. The plants will endure a light frost. The soil for Cauliflower should be like that for cabbage, but it is better if made richer. One ounce will produce 1,500 plants.



### EXTRA EARLY SNOWBALL

Unquestionably the earliest maturing strain of the true short-leaved Snowball type of Cauliflower. Admirably adapted for forcing or Wintering over for early crop, and the most popular sort for these purposes, also one of the best sorts for late Summer and Fall crop. The plants are compact, with few short outside leaves, and are well suited for close planting. The heads are of medium to large size, solid, compact, round, very white and curdlike, and are developed earlier than those of any other sort. Pkts. 25c oz. \$1.50.

### DROUTH RESISTING

Large, white solid heads, maturing a little later than the Snowball. The best for hot, dry weather. Pkts. 25c, oz. \$1.50.

## Chives

This popular kitchen garden plant is indispensable for flavoring certain dishes. It imparts a mild onion taste, not, however, to such an extent as to render it objectionable. The plants are hardy and will last for years. Don't cut the plant too close when gathering. If desired for Winter use, lift the plant in a pot or box and place in a sunny window in the kitchen. Pkt. 10c, oz. 25c, ¼ lb. \$1.25.

## Chickory

### WITLOOF or FRENCH ENDIVE

Grown for its use as a salad, the blanched head resembling cos lettuce in appearance. Eaten raw or as a salad, also sometimes cooked like Endive. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.25.

## Corn Salad

A favorite salad plant and very hardy. Sow in August or September, and protect with leaves during Winter. It can be gathered in the Spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. Three ounces of seed to 100 feet of row. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.25.

## Chervil

An aromatic plant, used extensively in Europe as a salad seasoner. It adds a flavor that is entirely its own. When chopped fine and scattered on buttered potatoes it is a rare treat. Sow it in a row like parsley, which it somewhat resembles. For a continuous crop, sow every 2 weeks.

One ounce will sow a row 25 feet long.  
Pkt. 10c, oz. 15c, ¼ lb. 35c.

## Plants and Roots - Vegetable

We grow each year, thousands of vegetable plants of all kinds from our own seed stock and you will find each variety true to name. They are looked after with the utmost care, and in shipping are packed in moss, in strong cases, so we can guarantee safe delivery to our customers. Our list includes the following:

### BEETS (Ready in April)

EARLY WONDER DETROIT DARK RED  
LEXINGTON MARKET BEAUTY  
50c per hundred. \$4.00 per thousand.

### CABBAGE (Frost-proof)

These are not grown by us, but are shipped direct from the Southern growers. Ready for shipment in March and April.  
EARLY JERSEY WAKEFIELD  
CHARLESTON WAKEFIELD ALL HEAD EARLY  
GOLDEN ACRE COPENHAGEN MARKET  
40c per hundred. \$1.75 per thousand.

### CABBAGE (Ready in May and June)

#### Home Grown

In addition to the above mentioned varieties, we can supply:

SUCCESSION ALL SEASONS DRUMHEAD SAVOY  
PREMIUM LATE FLAT DUTCH  
50c per hundred. \$2.00 per thousand.

### CAULIFLOWER (Ready in April)

EXTRA EARLY SNOWBALL  
25c per dozen. \$1.50 per hundred.

### CELERY (Ready in July)

GOLDEN SELF BLANCHING WINTER QUEEN  
WHITE PLUME GOLDEN PLUME GIANT PASCAL  
75c per hundred. \$5.00 per thousand.

### EGGPLANT (Ready in May and June)

BLACK BEAUTY  
POT GROWN PLANTS.—5c each, 50c per dozen, \$4.50 per hundred.  
DRAWN PLANTS.—20c per dozen, \$1.00 per hundred.

### LETTUCE — All Varieties (Ready in April, May, September and October)

50c per hundred. \$3.50 per thousand.

### PEPPER (Ready in May and June)

BULL NOSE CALIFORNIA WONDER CHINESE GIANT  
POT GROWN.—5c each, 50c per dozen.  
DRAWN PLANTS.—15c per dozen, \$1.00 per hundred.

### SWEET POTATO PLANTS

#### (Ready in May and June)

BIG STEM JERSEYS  
60c per hundred. \$3.00 per thousand.

### TOMATO

MARGLOBE BONNY BEST NEW EARLY RED  
NEW STONE WILTPROOF  
GREATER BALTIMORE SCARLET TOPPER  
HOT BED PLANTS.—Ready in April and May. 75c per hundred, \$4.00 per thousand.

FIELD GROWN PLANTS.—Ready in June and July. 50c per hundred, \$3.00 per thousand.

### RHUBARB ROOTS

10c each. \$1.00 per dozen.

### HORSE RADISH ROOTS

#### MALINER KREN

25c per dozen. \$1.25 per hundred.

**NOTICE.**—Plants will not be forwarded C. O. D. Plants are not quoted by express prepaid; the customer pays express charges, and unless otherwise instructed, plants will be forwarded by express. Cash must accompany all orders for plants. If plants are wanted sent by Parcel Post, add 10c per hundred to above prices.

## CELERY

**CULTURE.**—Sow in hotbeds in March or in open ground in April. See that no weeds infest the seed bed. When 3 inches high transplant in a bed outdoors in rows 3 inches apart each way; let them remain here until July, when they should be planted where they are to mature, in rows 3 feet apart, 6 inches apart in the row. One ounce of seed will produce 2,000 plants.



Golden Self Blanching

**GOLDEN SELF BLANCHING**

This is undoubtedly the most popular variety for the market gardener and also the home garden. It is unexcelled and absolutely reliable and our rapidly increasing trade is abundant evidence of its high quality. It is now the leading sort on all markets as an early Celery. For market use it is preferred to White Plume, because it does not wilt so soon, and its rich yellow color is very attractive. The stalks are heavier, of a fine nutty flavor, attains a good size, and it comes into market almost as soon as any other sort. It is of dwarf, compact habit and blanches readily. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**GOLDEN PLUME**

This variety comes in for use at Christmas, and keeps well into the Spring. Large heavy stalks and very nutty. The heart or inner stalks are a rich golden yellow. Easy to blanch, a good keeper and always of the crisp, brittle and nutty quality so much desired. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**WHITE PLUME**

It is the earliest Celery in cultivation. It is distinct from Golden Self-Blanching in being taller in growth, more slender in stalk, and branches to a pure snowy whiteness. It is a valuable market sort on account of its extreme earliness, but is not as good a keeper nor has it so fine a flavor as the Golden Self-Blanching. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**WINTER QUEEN**

A medium-tall, solid variety; will retain its qualities long through the Winter. The heart is very full and large. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**COLUMBIA**

An exceptionally fine, early variety, is of medium height, but very stocky. Stalks are thick, almost round, are of a rich yellow color, and its fine flavor and crispness will please the most critical. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**EASY BLANCHING**

Excels in the qualities that give self-blanching celeries their value. It bleaches earlier and quicker than any of this class; it is the longest keeping variety grown (if put away green), excelling in this respect every other sort. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**EMPEROR**

A very special strain of late keeping Celery for Winter use. Of dwarf type averaging 18 inches in height, with thick white stalks and large, solid, pale yellow heart. Very crisp, with no stringiness, and of splendid flavor. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**CELERIAC**

**CULTURE.**—Sow the seed at the same season and give the same treatment as Celery. Transplant to moist, rich soil, in rows 2 feet apart and 6 inches apart in row. It is not necessary to blanch the plants.

**LARGE SMOOTH PRAGUE**

This is the best and largest of the Celeriacs. Almost round, like a turnip, with very few roots. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**CELERY  
(For Flavoring)**

For use in sausage, pickles, soups, etc.  $\frac{1}{4}$  lb. 10c, lb. 40c.

**Celery Plants**

Can supply all the leading varieties, during July and August.

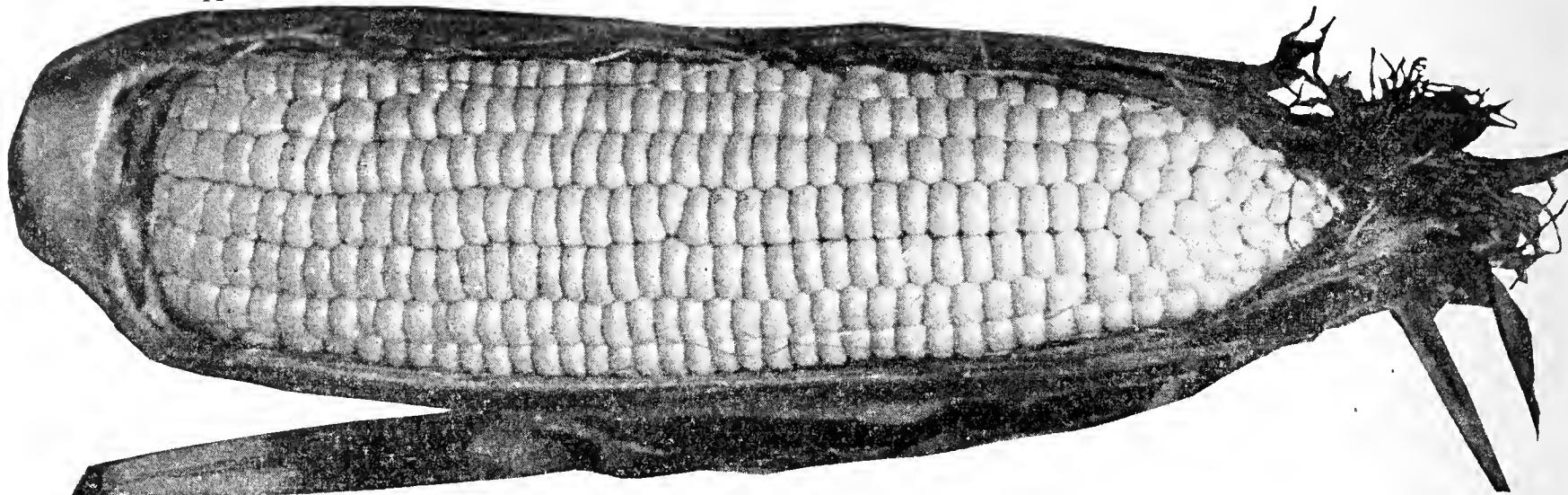
Per 100.....75c. Per 1,000.....\$5.00.

If wanted by Parcel Post, add 15c per hundred for packing and parcel post.

## SWEET or SUGAR CORN

**CULTURE.**—Sugar Corn can be raised on any good, ordinary soil if it is deeply and well worked before planting. Give frequent and thorough but shallow cultivation until the tassels appear. Plant in rows about 3 or 4 feet apart

and about 3 feet apart in the row. Leave not more than 3 plants to the hill. It can be planted from first of May to last of July for a succession of crop. Sow about 8 quarts to an acre.



Stowell's Evergreen

### EARLY EVERGREEN

A fine new sort; identical in flavor, shape and size of grain with Stowell's Evergreen, but about 10 days earlier. The ears grow about 9 inches long, are mostly 12-rowed, and remain tender a remarkably long time. It is a splendid sort for truckers and private gardeners, as it furnishes a succession to the second early sorts. Pkt. 10c, pt. 20c, qt. 30c, pk. \$1.25, bu. \$4.50.

### WHITE EVERGREEN

This is a high-bred white-type Stowell's Evergreen. It has been developed by careful work, only the finest white-eared product being saved and selected each season. The stalks are of strong vigorous growth, 6 to 7 feet high. Pkt. 10c, pt. 20c, qt. 30c, pk. \$1.25, bu. \$4.50.

### ZIG-ZAG EVERGREEN

This fine new strain possesses the distinct characteristics which have made Stowell's Evergreen so deservedly the favorite for main crop, but produces ears fit to use from 1 week to 10 days earlier. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50, bu. \$4.25.

### EARLY CHAMPION

An excellent second-early sort, as sweet as any variety, Golden Bantam and Country Gentleman not excepted. Yields more than any other early variety; ready for use in 70 days after planting. The ears are 6 to 8 inches long, 12-rowed, and kernels pure white. Very large and deep for an early corn; grows about 5 to 6 feet high, usually with two ears to the stalk. It is superior to most other corns in quality and is a few days earlier than Country Gentleman. More prolific, larger ear, deeper kernels. For home use and when dried it is remarkably sweet and tender. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50, bu. \$4.75.

### HOWLING MOB

A big-eared early corn with the sweet flavor of the late varieties; ears 7 to 9 inches long; usually two pearly white ears to the stalk; the shuck extends well over the tip and protects it from the green worm so destructive to early sweet corns. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50, bu. \$4.75.

### EARLY SHEFFIELD

This is one of the standard old varieties that has become wonderfully popular, both in quality and yield it is sure to delight all lovers of choice early Sweet Corn. Pkt. 10c, pt. 20c, qt. 30c, pk. \$1.25, bu. \$4.50.

### WHIPPLE'S EARLY WHITE

Grows a very large attractive ear, usually about 9 inches, of a creamy-white color. Sweet, tender and juicy. Pkt. 10c, pt. 20c, qt. 30c, pk. \$1.25, bu. \$4.50.

### WHIPPLE'S EARLY YELLOW

Same as above in earliness, size and sweetness. Yellow grain. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50.

### GOLDEN BANTAM

This is a Sweet Corn of most exquisite quality, which, when ready to use, is of a bright golden yellow color. It looks rich, and it is rich, and no mistake. It can be planted very early, as it is hardy as the Extra-Early Adam's. The small stalks can grow very closely together in the row and will produce 2 to 3 ears each. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50.

### GOLDEN GIANT

As its name implies this is the largest of the yellow sugar varieties, the ears measuring up to 8 inches long. The cob is of small diameter, and contains twelve to eighteen rows of long, thick grains which cover the entire surface and are deep orange in color, extremely juicy and sweet. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50.

### COUNTRY GENTLEMAN

The ears are somewhat smaller and less showy than the coarser varieties but for private family use, where quality is preferred to size, it has no equal. The cob is very small, giving great depth to the grain. Matures about the same time as Stowell's Evergreen. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50, bu. \$4.75.

### SELECT STOWELL'S EVERGREEN

The most popular of all. If planted at the same time with earlier kinds will keep the table supplied until October. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition for cooking. In fact, it is so well known that it needs no further description. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.50, bu. \$4.50.

### EXTRA EARLY VARIETIES

(Not Sugar Corn)

### ADAM'S EXTRA EARLY

Pure white, medium-sized ears. Not a sugar corn. Planted extensively by market gardeners, as it matures in about 65 days after germination. Pkt. 10c, pt. 15c, qt. 25c, pk. \$1.00, bu. \$3.50.

### NINETY-DAY (Red Cob)

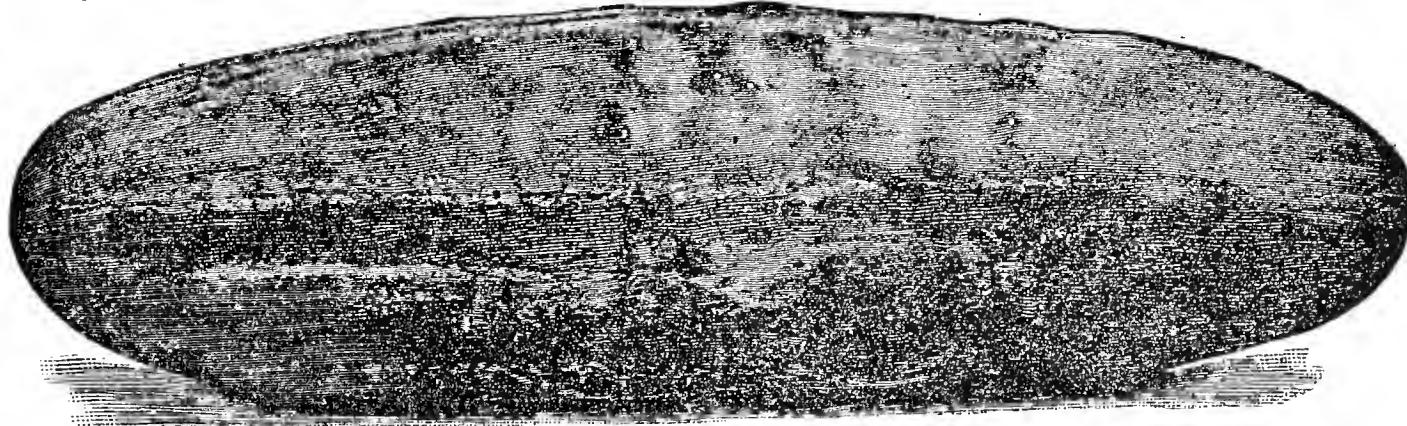
This sort, while not a sugar corn, is planted almost exclusively as a table corn. It matures in 90 days, and if weather conditions are just right, will often be ready to cut in 80 to 85 days. Cob red, ears large, grain large, white. Pkt. 10c, pt. 15c, qt. 25c, pk. \$1.00, bu. \$3.50.

*Sweet Corn is Delicious when Cooked, Fresh from the Garden*

## CUCUMBER

**CULTURE.**—Cucumbers succeed best in rich loamy soil. As soon as the weather becomes warm and settled, plant in hills 4 to 6 feet apart each way, with 10 to 12 seeds in a hill; cover  $\frac{1}{2}$  inch deep. Air-slaked lime sprinkled on the plants every few days as soon as they are up will

protect them from the striped beetle. When 3 or 4 inches high, thin out plants, leaving 3 or 4 of the strongest to each hill. The fruit should be picked when large enough, otherwise it destroys the productiveness. One ounce to 50 hills; 2 pounds per acre.



W.-D. Co.'s O. K.

### W.-D. CO.'S O. K.

(The Cucumber "Par Excellence")

A remarkable feature of this variety is the strong and vigorous growth of vines, which enables it to withstand blight and bring the fruits to their full size and perfection. The flesh is thick; seed cavity relatively small, with few seeds; color rich dark green, which does not fade nor turn yellow when shipped a long distance. It is tender and crisp, making it fine for slicing. The fruit is longer than either the "Klondike or the White Spine," more cylindrical in shape. Medium early; maturing in about 70 days. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### KLONDIKE

This is a true and distinct sort, not to be compared with the White Spine. It is entirely different, in that it holds its greenish color longer, is earlier and has a much better appearance. It is the best for truckers as well as for the home garden. One trucker in Anne Arundel County, Md., says: "The best crop of Cucumbers I ever had," and we can say that this is the sentiment of all who have tried this wonderful sort. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.00.

### IMPROVED LONG GREEN

Of excellent quality, dark green, firm and crisp. Very popular with the market gardeners. A standard pickling sort. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.00.

### SURE GREEN

This is one of the most productive sorts. Fruit can be picked throughout the entire season. The vine is hardy and will continue to flower and bear fruit until killed by frost. Very early. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.00.

### LONGFELLOW

An excellent long, slender, dark green variety equally desirable for greenhouse forcing or out door culture. An ideal type for the private garden or as a "straight pack" variety for shipment to market. 12 to 14 inches long by  $2\frac{3}{4}$  inches in diameter. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### ARLINGTON WHITE SPINE

This strain of White Spine has been improved by careful selection. Rich green color, and a very prolific bearer. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.00.

### EARLY FORTUNE

The finest type of White Spine yet produced. Early, very productive and disease-resistant; fruits nine inches long, slightly tapering; flesh white, very firm and crisp, with very few seeds; color rich, dark green, which does not fade when shipped a long distance. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### DAVIS PERFECT

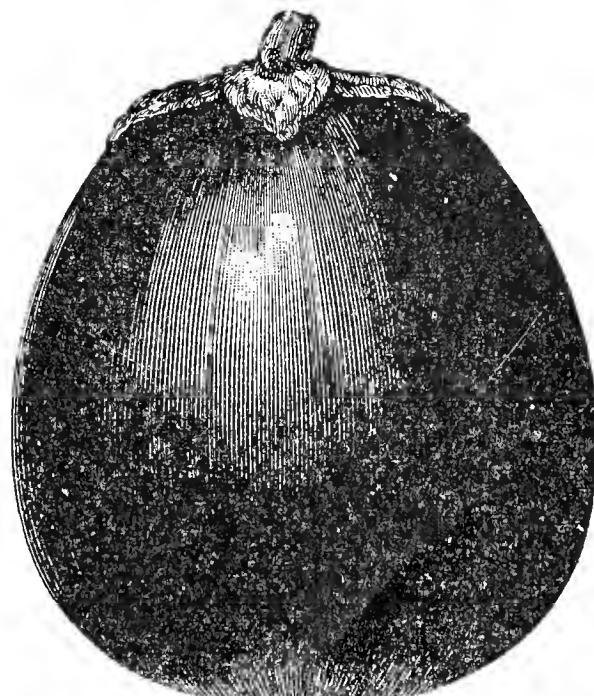
A desirable mid-season variety for shipping. Fruits dark green, weigh 2 pounds, tapered at both ends; flesh crisp and of good quality. Matures in 58 days. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## GHERKIN or BURR

A very small, oval, prickly fruited sort, quite distinct from all others and grown exclusively for pickles. It is the smallest of all the varieties, and should always be picked when young and tender. Seed distinctly smaller than other Cucumbers, and is slow to germinate, requiring usually from 2 to 3 weeks. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c.

## Eggplant

**CULTURE.**—Eggplant seed germinates slowly and should be started in hotbed, for in this, as in all subtropical plants, it is of importance to secure a rapid and continuous growth from the first, the plants never recovering from a check received when young. When the plants have formed 2 rough leaves, transplant to 3 or 4 inches apart. When all danger, not only of frost, but from cold nights is past, harden off the plants by gradual exposure to the sun and air, and decreasing the supply of water; then transplant to the open ground, setting the plants  $2\frac{1}{2}$  feet apart. One ounce will produce about 1,000 plants.



BLACK BEAUTY

Fruits large, symmetrical in shape and uniformly of a rich dark purple color, which it holds an exceptionally long time, making the variety very desirable for the market. Fruit matures a little earlier than our Improved Large Purple, but are usually not quite as large. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

## Endive

**CULTURE.**—Endive is an excellent Autumn and Winter salad. Sow seed late in the Spring, or even as late as July, in shallow drills, 15 inches apart, and when plants are strong thin out to about a foot apart. To blanch, gather up the outer leaves over the center of the plant and tie them together at their tips. Sow 1 ounce to 100 feet of drill.

### GREEN CURLED

The hardiest variety. The finely divided leaves are of a dark green color, giving it a mossy appearance; easily blanched to a fine white. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.25.

### BROAD LEAF BATAVIAN (Escarolle)

The broad leaves, twisted and waved, are of bright green with middle ribs nearly white. The inner leaves blanch to a creamy white. Tie up for blanching. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.25.

### FULL HEART BATAVIAN

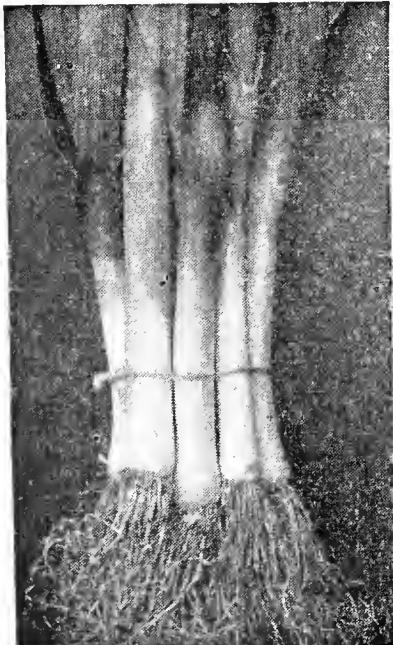
A distinctly improved form of Broad Leaf Batavian. Plant medium large, with deep, full, compact, well-balanced heart of infolded broad leaves, thick and buttery in texture and of splendid quality. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.25.

## Fennel (Finocchia)

**CULTURE.**—Plant the seed and treat about the same way as for Celery.

### FLORENCE FENNEL

Valuable for home and market gardens. The plants grow quite bushy, about 3 feet high, with broad overlapping leaves forming a bulb-like root or vegetable at the base of the stem, which is frequently used as a celery, is sweet and aromatic. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.



## Leek

**CULTURE.**—Sow the seed and care for the young plants same as for onions, but they need a little more room. One ounce to 150 feet of row.

### LARGE AMERICAN

Produces a large, thick stem and of mild flavor. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.25.

### LONDON FLAG

One of the hardiest and best for Winter use. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.25.

## Kale

Extensively grown in this locality and also in the South during the Fall, Winter and Spring. The plant is more hardy than cabbage, and makes excellent greens for Winter and Spring use. The quality is improved rather than injured by frost. One ounce of seed will sow a drill of about 150 feet. Usually sown broadcast, 4 to 5 pounds per acre.

### SIERIAN CURLED

A finely curled, spreading, low-growing variety. The leaves, when properly cooked, make a very palatable dish of greens. The plant is very hardy. The leaves are long and of an attractive, bright green color. Oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

## SMOOTH LEAF or SPRING KALE

A hardy, quick growing, smooth leaf variety. For succession, should be sown about every 10 days in order to have it young and tender. Oz. 10c,  $\frac{1}{4}$  lb. 15c, lb. 30c.



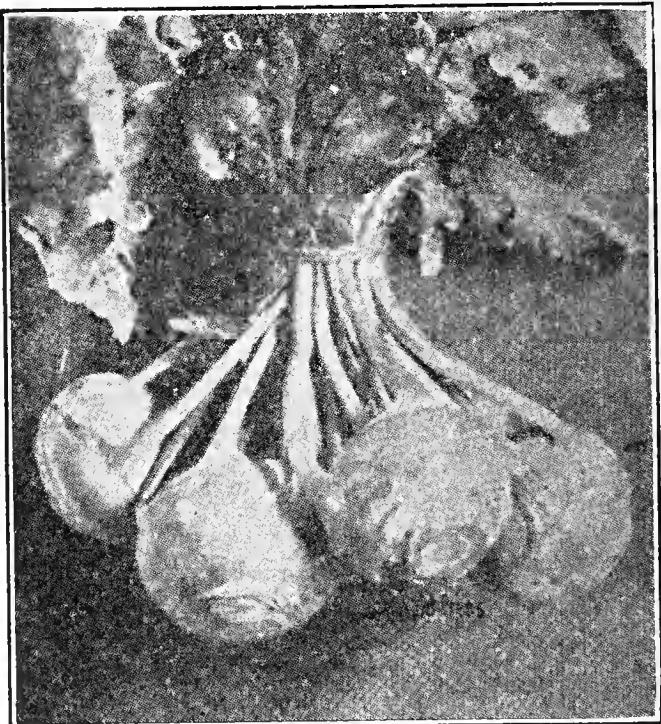
Siberian Curled Kale

## SLOW-SEEDING SIBERIAN CURLED

As its name implies, it is a long standing or slow seeding variety; being a decided improvement over the old Siberian Curled, in that it not only stands longer before going to seed but it is also more beautifully curled. It is a hardy, vigorous sort and will almost stand zero weather. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## Kohl-Rabi

**CULTURE.**—This is a favorite vegetable in Europe, where it is extensively grown for feeding cattle as well as for table use. The bulb is formed above the ground, and if used when young and tender, makes a most delicate dish for the table. One ounce will sow 150 feet of drill.



## EARLIEST WHITE VIENNA

Greenish-white outside, with clear white flesh within. Smooth short leaf; good for forcing fine quality. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$1.75.

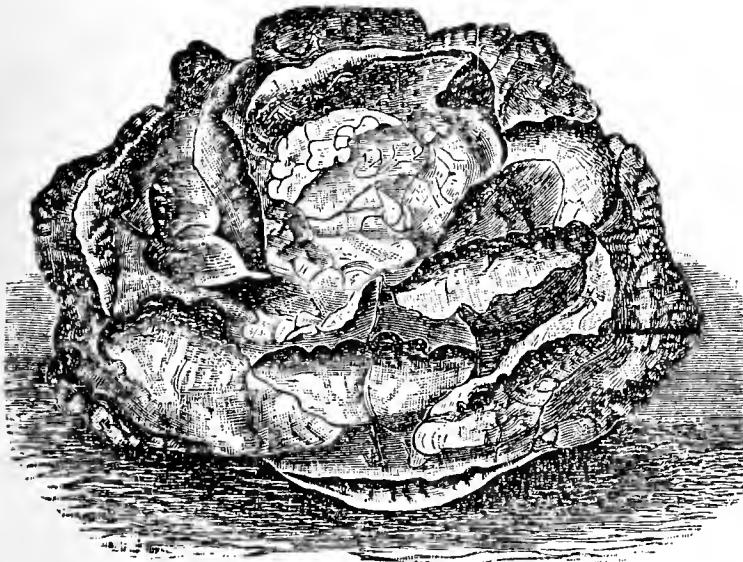
*We Deliver Orders for Packets, Ounces and Quarter Pounds, by Parcel Post Free, anywhere in the U. S., but only when Cash accompanies the Order*

# LETTUCE

**CULTURE.**—Lettuce seed germinates very quickly and may be planted as soon as the ground is workable in the early Spring. The seed should be sown in rows about 18 inches apart, covering not more than  $\frac{1}{2}$  inch deep. The loose leaf type may be thinned to an inch or so apart as soon as a few leaves are formed, and when large enough for the table, they may be thinned as used. Lettuce to be at its best, should be grown as rapidly as possible; hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For Winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. One ounce will produce about 2,000 plants.

## BIG BOSTON

Popular for outdoor culture; also much in demand as a compact, large-heading, forcing sort. Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp. Color bright light green, the head slightly tinged with reddish-brown. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.



New York or Wonderful

## NEW YORK or WONDERFUL

The outstanding shipping variety, commonly called Iceberg by the produce trade. A large, globe shaped, curled, heading lettuce with dark green leaves of a very thick texture. Heads are well blanched, sweet and of excellent quality. The seed we offer is of a special strain and is noted for large size heads. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

## WHITE BOSTON

This new variety differs from the regular Big Boston as it does not have the red tinge on the edge of leaves. Suitable for planting in early Spring or Fall. Leaves are of a greenish white, very large handsome heads. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

## ALL SEASONS

One of the best year round lettuces suitable for planting in Spring, Summer, or Fall. Stand the heat well. Heads green, with inner leaves of golden yellow. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## GRAND RAPIDS

The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting, so that the variety will stand shipping long distances better than most sorts. Very attractive and desirable for garnishing. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## SIMPSON'S EARLY CURLED

Leaves light green, slightly frilled and much blistered, crisp, sweet and tender. Especially adapted for sowing thickly and cutting when the plants are young. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## W.-D. CO.'S SUMMER HEADER

Will stand the summer heat better than most sorts, and will make beautiful solid heads. Leaves are of a beautiful green and are very tender and buttery. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## UNRIValed

Forms large, compact, butter heads, and is slow going to seed. Similar in character to Big Boston except greener and the leaves are not tinged with brown. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 40c, lb. \$1.50.

## MAY KING

A handsome, extremely early, compact, cabbage or heading variety, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish-brown when mature. Inner leaves blanch rich golden yellow; very tender and buttery. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## ROMAINE or PARIS WHITE COS

Cos Lettuce is distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar loaf-shaped heads, which blanch better by having the outer leaves drawn about them and tied. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## SALAMANDER

A large, compact, light green head, of excellent quality. The leaves are broad, thick, somewhat crumpled and closely overlapping, so that the inner ones are very finely blanched. The variety withstands hot weather remarkably well. It is one of the most satisfactory heading lettuces for growing outdoors. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## DEFIANCE

This sort stands the Summer heat better than any other. Forms very large and firm heads. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## PRIZEHEAD

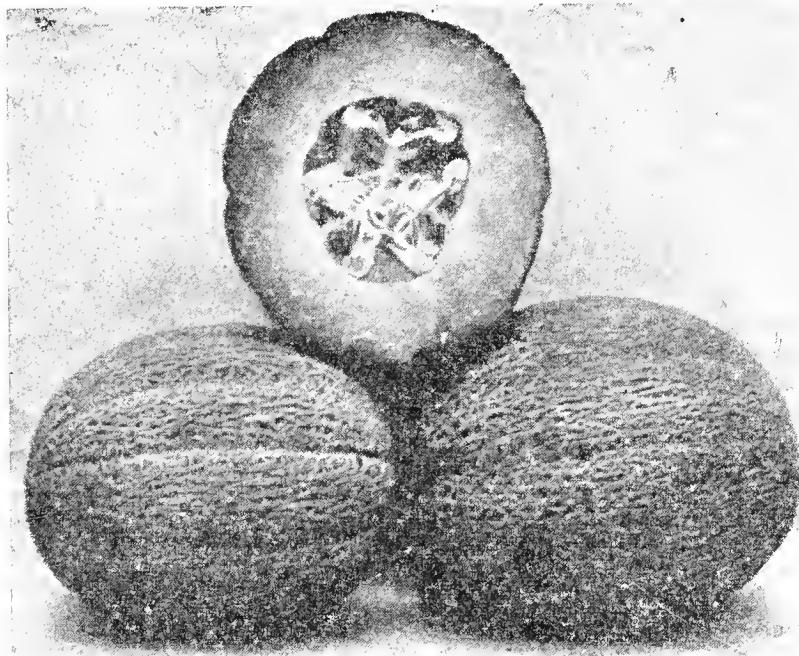
Medium sized plant composed of many curled leaves. The leaves are bright green, well bronzed at the edges. Grows quickly and has a fine flavor. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## MUSKMELONS or CANTALOUPES

**CULTURE.**—Plant the seeds in hills about 5 feet apart each way, dropping 8 to 10 seeds in a hill. After the plants are up about 3 inches, thin to 1 of the most vigorous plants in the hill. Plant after all danger of frost is passed. Select medium to light soil. One ounce will plant 50 hills, 2 pounds per acre.

### EXTRA-EARLY KNIGHT

Slightly larger than the "Rocky Ford," but more heavily netted. The seed cavity is small and flesh, which is green, thick and sweet, containing a high percentage of sugar. An important feature of this melon is its ability to withstand rust and blight, as it is nearly proof against either. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.



### THE BOTTOMLEY

This is without a doubt the best yet. The seed we offer is from the true stock, and must not be confounded with seeds sold at a less price by unscrupulous dealers. Grown by us under our own supervision, where it can be carefully watched, and in one of the best sections of the country for the growing of Cantaloupes, there is no reason why this should not rank as the best on the market. In quality it has no rival. From 7 to 8 days later than the knight. The vine makes a very heavy growth, which makes it blight-resisting. Fruit very uniform in size, averaging about 7 inches in length from stem to blossom end. Very thick-meated, of a greenish color. Small seed cavity; thin rind, beautifully netted. Slightly pointed at the stem end and rather blunted at the blossom end. For shipping it is unexcelled. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.50.

### W.-D. CO.'S LONG JOHN

A late variety, longer than the Bottomley, hence, its name. Heavily netted, greenish flesh, flavor very sweet, very productive. Vines of vigorous growth and quite free of rust or blight. Grown from our own seed stock. We highly recommend this variety to the trucker. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

### ROCKY FORD

A comparatively small green fleshed melon of the oval type, and ideal for serving in halves. Strong and vigorous in its growth and an abundant yielder. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### HONEY DEW

The melon with an appropriate name. This new melon is unlike the ordinary Muskmelon or Cantaloupe, both in appearance and flavor, the outer skin being smooth, hard and nearly white. The melons are large, round to oval in shape, extremely thick-meated and have a very small seed cavity; flesh is light green, very solid and of a rich honey-like flavor, luscious and juicy. Of good keeping qualities and a good shipper. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.50.

## Mustard

### FORDHOOK FANCY

A handsome, vigorous growing, mild variety, standing a long time before going to seed; leaves dark green, beautifully curled and fringed; fine for salads and garnishings; seed reddish-brown. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### SOUTHERN GIANT CURLED

Plant vigorous and hardy, of upright, spreading growth; leaves large, light green-tinged yellow, much crumpled and frilled at the edges. The popular market variety in the South; seed small, dark reddish-brown. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

## MUSHROOM SPAWN

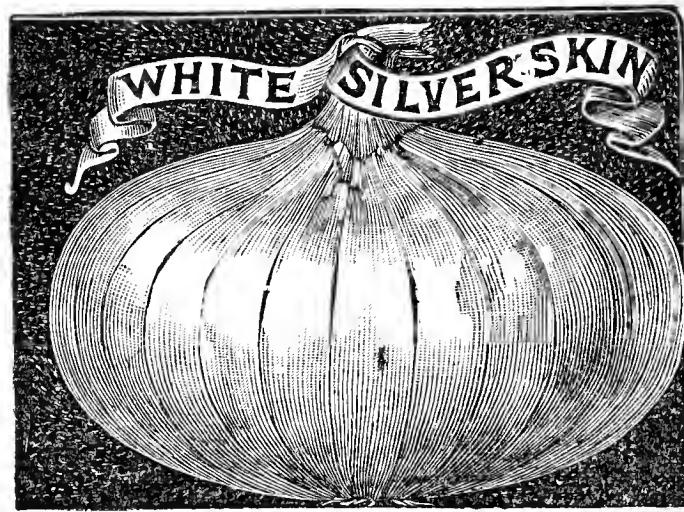
Mushrooms can be grown in cellars, sheds, hotbeds and sometimes in the open air, the chief essentials being uniform degrees of temperature and moisture.

### SPORE CULTURE

One brick will spawn 8 to 10 square feet.  
1 Brick ... \$ .35 5 Bricks ... 1.50 10 Bricks .. 2.75

## Onion

**CULTURE.**—A strong, deep, rich and loamy soil is most suitable for this crop. Muck beds well drained to the depth of 2 feet give large yields. A black sandy loam is also excellent. The ground should be heavily dressed with well-rotted manure and plowed a moderate depth, taking a narrow furrow in order to more thoroughly mix the manure with the soil; if possible, the plowing should be done in the Fall. As early in the Spring as the ground is in working order harrow it thoroughly and make as fine and level as possible; sow thinly in drills  $\frac{1}{4}$  inch deep and 14 inches apart.



### WHITE SILVER SKIN

This is the most popular of all white Onions. The skin and flesh is a silvery white, mild flavor and flat shape. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.25.

### PRIZETAKER

Flavor very mild and delicate. A very handsome Onion, of the largest size, and nearly globular in form. Skin is yellowish-brown; flesh white. If started very early in hotbeds it will produce a mammoth Onion the first season. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

### YELLOW GLOBE DANVERS

One of the most popular sorts for home or market gardens. Handsome, round, yellow Onion. A splendid keeper, and one that yields well. Can highly recommend this for growing either large or small Onions. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

### LARGE RED WETHERSFIELD

This is a well-known sort. A good yielder and an excellent keeper, and where red Onions are wanted there is none better. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

## WATERMELON

**CULTURE.**—Watermelons require a rich sandy loam, which should be well worked. Put 10 to 12 seeds in a hill. When the plants have formed the first pair of rough leaves

they should be thinned so as to leave 2 or 3 of the strongest and best to each hill. Make hills about 10 feet apart. One ounce of seed to 30 hills.

### TOM WATSON

This long, smooth melon is especially favored in the South. The rich green skin is faintly webbed with a veining of deeper green, covered with a fine netting, giving it a most attractive appearance. The flesh is of most superb quality and intensively red color. The rind is thin, but hard and rubbery, which makes it a splendid shipping sort. Vines hardy, vigorous and productive. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

### FLORIDA FAVORITE

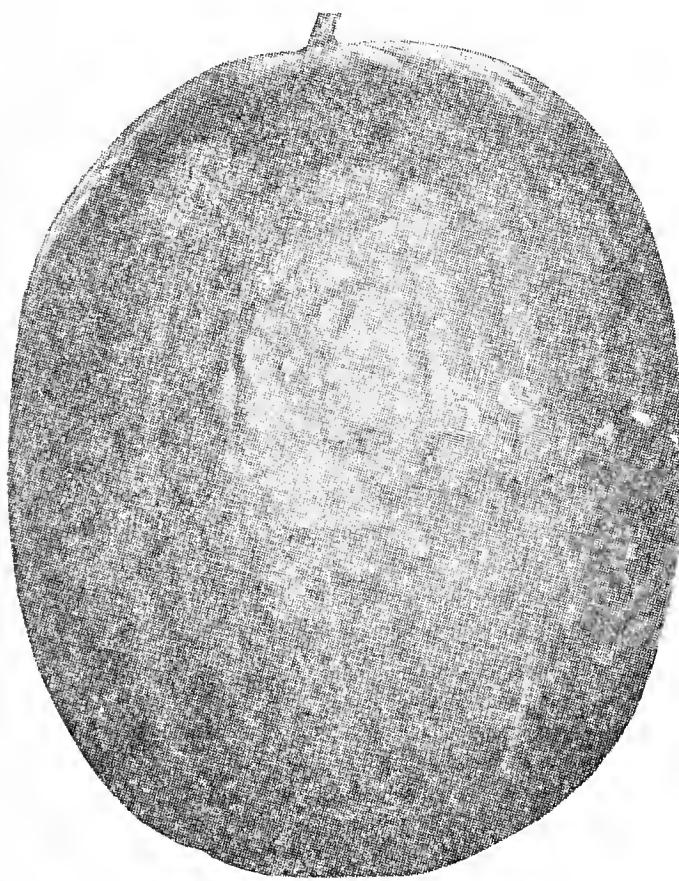
A standard sort. Long and of uniform size. Color a beautiful green. Flesh very red, with a taste that lingers. It has long been a favorite with the truckers and market gardeners. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

### KLECKLEY SWEET

Well does it deserve its name. It has a sweetness peculiarly all its own. The skin is a rich dark green; the flesh bright scarlet; ripening close to the rind. The melons average about 20 inches long and ripen quite early. Our strain is from the original stock, and we can recommend it very highly. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

### THURMOND GRAY

A heavy producer of large long melons that have size, attractive appearance, fine quality and bright red, solid meat that ripens close to the tough thin rind and is free of strings. The green or greenish-gray color makes it hard to sunburn and it is wilt-resistant. It is a wonderful market melon, ranking with Irish Gray and Tom Watson as a shipper, but it has the fine sugary quality so necessary in a home garden melon. It is about as early as Irish Gray. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



Stone Mountain



### IMPROVED GEORGIA or AUGUSTA RATTLESNAKE

Rattlesnake has always been regarded as a fine melon and by many is preferred to all others. Our improved strain is even better than it ever was on account of constant selection and watchful work on it throughout a period of years. The rind is thin and tough, the flesh deep scarlet, the flavor and fine quality are unsurpassed by any other melon. We recommend it for both the home garden and for shipping. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### W.-D. CO.'S EXCEL

We have the best strain of this new variety obtainable. It is a very great improvement over the Tom Watson, both as to size and color. One market dealer says, "It is the largest melon he ever saw." Some weighing as much as eighty pounds. The best shipping and the best market melon. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

### IRISH GRAY

In sweetness it is like Kleckley's Sweet; in shipping quality, uniformity in shape, size and in productiveness it compares with Tom Watson. The thin rind is so tough it will not burst from rough treatment in transit; its keeping quality will appeal to shippers who have experienced losses on account of glutted markets. The color is a distinct mottled greenish grey; the flesh is red, sweet, crisp and free from stringiness. Although a grand shipper, it is equally fine for the home garden.  
Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### STONE MOUNTAIN

The largest of the round or nearly round melons, for on good melon ground they weigh 50 pounds or better. The outside color is dark green; the flesh is deep red, firm and solid, almost all heart with no white hearts or stringiness. In delicious sweetness it is the equal of Halbert Honey and Kleckley Sweet and almost equal to Jackson. It is especially recommended for the home garden and nearby markets, but if carefully packed, the rind is tough enough to stand considerable handling, and on arrival usually outsells all other melons. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### PRESERVING CITRON or MELON

A large-fruited variety, pure white flesh and thin rind. This is expensive when bought, yet can be grown and preserved by any energetic housewife, who will then also know it to be absolutely pure and good. It is planted like Watermelon. Red-seeded. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

## Onion Sets

To raise Onion Sets from seed, use good ground, prepared as for large Onions, and sow the seed very thick in broad drills, using 40 to 60 pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets, but will not be of the right shape, and if sown thick on poor land they will be necky and bottle-shaped. Onion seed sown for Sets may be sown somewhat later than if a crop of large bulb is desired.

It requires 12 to 15 bushels of Onion Sets to plant an acre.

### PRICES:

#### WHITE SILVERSKIN

Qt. 25c, pk. \$1.25, bu., 32 lbs., \$4.50.

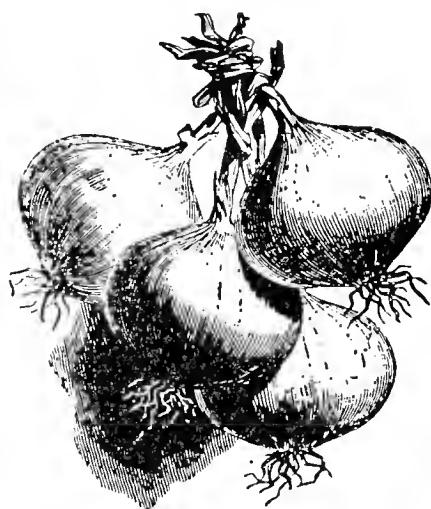
#### YELLOW GLOBE DANVERS

Qt. 20c, pk. \$1.00, bu., 32 lbs., \$4.25.

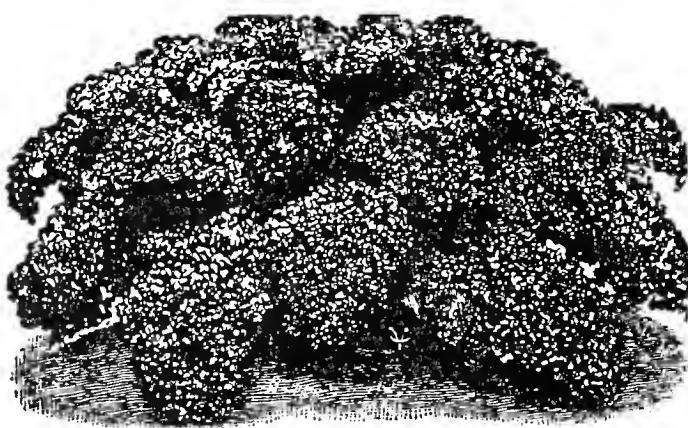
#### JAPANESE OR YELLOW EBENEZER

Qt. 20c, pk. \$1.00, bu., 32 lbs., \$4.25.

Write for prices on larger quantities.



## Parsley



Parsley succeeds best on rich, mellow soil. The seed is very slow in germinating, and should be sown as early as possible in the Spring, in drills 1 to 2 feet apart, covering not more than  $\frac{3}{4}$  inch with fine soil, firmly pressed down. When plants are well up thin to 4 inches apart in the row. When the plants of the curled varieties are about 3 inches high cut off all the leaves. The plant will then start a new growth of leaves, which will be brighter and better curled. Every cutting will result in improvement.

#### TRIPLE CURLED

Handsomely crimped and curled; rich, deep green color. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

#### MOSS CURLED

The most popular, owing to its vigorous, compact growth and its beautiful dark green, tightly curled leaves that closely resembles moss. It is unusually decorative for table use. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

#### PLAIN or SINGLE LEAF

Leaves are not curled, as in the above varieties. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

#### HAMBURG or ROOTED

The fleshy root resembles a parsnip and is used for flavoring soups, etc. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## Okra or Gumbo



Cultivated for its young seed pods, which are used in soups, stews, catsups, etc. After danger of frost is past, the ground being warm and in good condition, plant in rows about 2½ feet apart, covering with about an inch of fine soil, firmly pressed down. When about 3 inches high thin to about 1 foot apart in the row. One ounce will sow a row of 100 feet.

#### DWARF PROLIFIC

The pods are from 4 to 5 inches long and are very tender, slim and of a beautiful deep green color. Oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

#### WHITE VELVET

The pods are more smooth or free of ridges; tender and very light green, almost white. Oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

**WE WILL SEND BY PARCEL POST, PREPAID;** as follows: SEEDS in Packages, Ounces, Quarter Pounds, Half Pounds, Pounds, Pints and Quarts; at prices quoted in this catalogue.

Seeds in larger quantities, the purchaser pays transportation; if outside of our free delivery zone, which is to say; within a radius of 10 miles of Baltimore.

## PEAS

**CULTURE.**—For early Peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet, mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the Peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in

maturity. The Peas will give quicker returns if covered only 1 inch deep, and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches 3 to 6 inches deep and covered with only 1 or 2 inches of soil. When the plants are 5 or 6 inches high fill the trench level with the surface; this will secure deep rooting, prevent mildew and prolong the bearing season. If the Peas be covered to the full depth at first, or if water be allowed to stand in trenches, they will not germinate or grow well.

### EXTRA-EARLY VARIETIES

#### LARGE PODDED ALASKA

Vines 2½ feet. The pods are well shaped and well filled, containing 6 to 8 Peas of a beautiful green color, both Peas and pods retaining their fresh green color longer after being picked than other kinds, this being a point of particular value when they are grown for shipping purposes. Pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

#### ALASKA

Vines 2½ feet. Seed small, smooth and bluish green in color. Unequalled evenness in growth of vine and early maturity of pods, which are filled with medium-sized, bright green Peas of good flavor. Pt. 25c, qt. 40c, pk. \$1.75, bu. \$6.00.

#### BOUNTIFUL

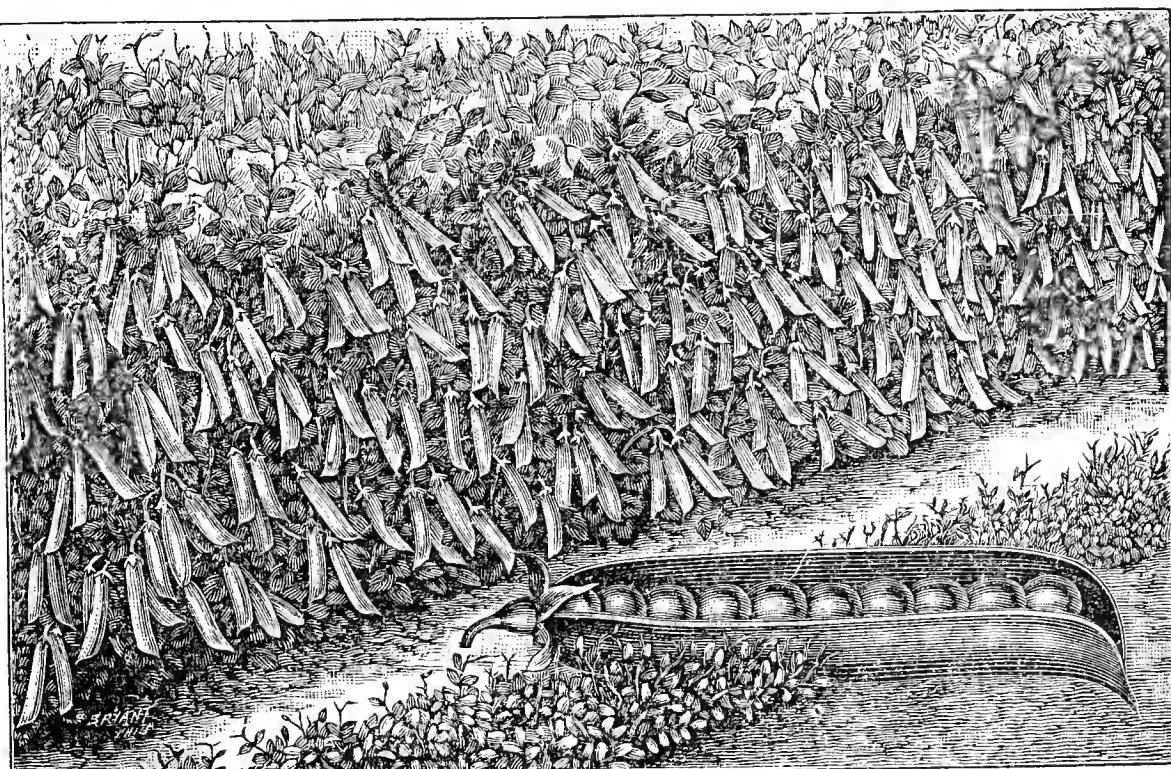
Of recent introduction. Early and very prolific; vines of even growth and bearing any number of well-filled pods, which are of a light green color, containing 6 to 8 Peas to the pod. Pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

#### PEDIGREE EXTRA EARLY

A very popular sort with the trucker. Early as Alaska; large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking. Pt. 20c, qt. 35c, pk. \$1.75, bu. \$6.50.

#### PROLIFIC EARLY MARKET

It has proven to be the finest, largest and most prolific extra-early variety on the market. It is larger than the Alaska, a few days later and more prolific than any of the other sorts. Will always command a higher price in the



W. D. Co.'s Early Bird

markets because of its handsome and showy pods. It is just the Pea for the trucker and also the home garden. Pt. 20c, qt. 35c, pk. \$2.00, bu. \$7.00.

#### EARLY BIRD

A very early, large podded variety. Semi-wrinkled. Vines grow about 22 inches. Pods from 4 to 4½ inches long and pointed, with from 9 to 10 peas in the pod. Robust growth and a very heavy yielder. Can be sown with safety as soon as the ground can be worked. This is one of the best varieties for the market gardener and trucker. Pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

### LARGE-PODDED SUGAR VARIETIES

#### THOMAS LAXTON

Closely resembling Gradus in habit, rapidity of growth, earliness of foliage; 26 to 30 inches high, and much hardier in every respect than the Gradus. Pods 4 to 4½ inches long, round and well filled. Ready to pick 52 days from planting. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

#### AMERICAN WONDER

Vigorous, productive vines, with a luxuriant foliage, producing the leaves on one side of the stalk, and growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light-colored, straight, round, about 2½ inches long and blunt at the end. Fit for picking 55 days from planting. Seed is wrinkled green, medium in size and square at the ends. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

#### NOTT'S EXCELSIOR

Resembling Gems in habit, but more dwarf and uniform in growth. Height 12 to 17 inches, with rather light foli-

age. Pods are light in color, round, about 2½ inches long, blunt at the ends. Fit for pickling 56 days from planting. Seed green, wrinkled, medium in size and square at the ends. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

#### GRADUS, or PROSPERITY

A large, wrinkled, early Pea, with a pod nearly as long as the Telephone; tender and of good quality and flavor. Very quick to germinate and mature with the other sorts. This Pea will not stand adverse conditions, however, as well as some of the other sorts, and seed must be planted after all danger of frost has passed. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

#### PREMIUM GEMS

Strong and vigorous in growth. Height about 15 inches; dark foliage, bearing pods on both sides of the stalk, beginning near the ground. Pods light in color and blunt at the ends. Seed is green, wrinkled and medium in size. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

**LONG ISLAND MAMMOTH**

Very popular with market gardeners who want a large, handsome pod of a dark green color. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

**DWARF TELEPHONE**

Vines 18 to 26 inches high, with rather coarse foliage; medium light green, bearing pods broad, straight and about 4 inches long. Pale green in color and well filled with peas of excellent flavor. Ready for picking from 62 to 65 days from planting. Seed pale green, large, much wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**SUTTON'S PIONEER**

It is a first-early sort and very prolific. The large, handsome pods being packed with plump, tender, rich-flavored peas. Vines reach a height of 2 feet, are very strong and do not need support unless the soil is very rich. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

**WORLD'S RECORD**

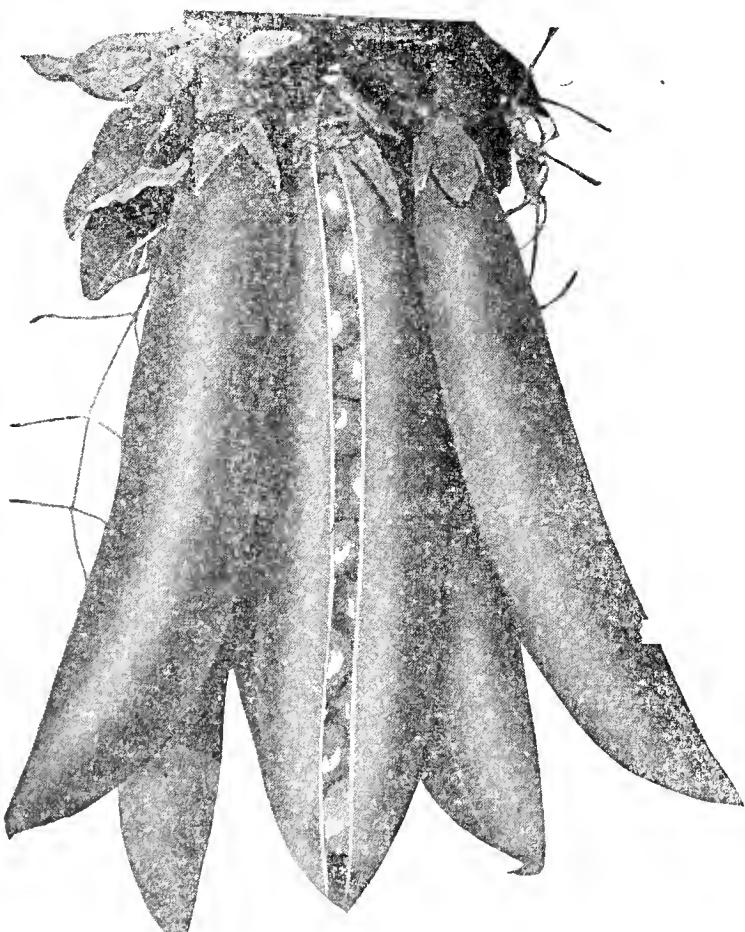
This is of the Gradus type, being an improvement, in that it is earlier and more prolific; maintaining the same fine flavor. Matures in 74 days. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**STRATACEM**

A vigorous, hardy and luxuriant vine, bearing large pods, containing Peas of excellent quality. A heavy cropper, but it has a tendency to sport. Vines 20 inches. Foliage dark green. Pods 3½ inches long, straight, broad-pointed, gray-green in color. Fit for table use 56 days from planting. Seed very large, green wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

**EVERBEARING**

Vigorous and bracing in habit of growth. Height 2½ to 3 feet. Pods 2¾ to 3 inches long, broad, light-colored and blunt. Fit to pick 70 days from planting. Seed green, wrinkled and large in size. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.



Early Wonder

**CHAMPION OF ENGLAND**

Strong and vigorous in growth, 42 to 50 inches in height. Foliage medium green. Pods 2½ to 3 inches long, blunt, medium dark green in color. Fit to pick 68 to 73 days from planting. Seed large, green and very much wrinkled. Pt. 20c, qt. 30c, pk. \$2.25, bu. \$7.50.

**PRIDE OF THE MARKET**

Of fine growth and general appearance, both vine and pod, and closely resembles the Stratagem, except that the vine is not quite so long and the pods are deeper green in color. The vine is 20 inches high. Foliage dark green color. Pods are 3½ inches long, broad and dark in color. Fit for table use 61 days from planting. Seed blue, slightly dented and large. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**LESPEDEZA****Unhulled or Hulled**

Size	Retail
1 bu. ea. ....	\$ .35
2 bu. ea. ....	.60
5 bu. ea. ....	1.25

**Soy Beans, Cow Peas, Lima Beans**

**Size****Retail**

1 bu. ea. ....	\$ .35
2 bu. ea. ....	.60
5 bu. ea. ....	1.25

**10 bu. ea. ....** 2.00

**\*25 bu. ea. ....** 3.75

**\*\*25 bu. size." Packed only for Soy Beans, Cow Peas.**

**Garden Size**

**NITRAGIN for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines**

**Inoculates from 1 oz. to 8 lbs. seed.**

**Retail Price....25c each**

**TELEPHONE**

Vines and leaves large and coarse. Foliage light green in color. Height 60 to 63 inches. Pods 4½ inches long, broad, pointed and medium in color. Fit to pick 85 to 88 days from planting. Seed large, green and wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**LAXTONIAN**

Vine 1½ feet in height, with dark green foliage. Large, curved, dark green pods, pointed at the ends. Seed green, wrinkled, large-sized. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**TELEGRAPH**

Closely resembling Telephone in all respects, except that the pods are a deeper shade of green and the Peas are of only fair quality, although the pods are of very fine appearance. Pods 4 to 4½ inches long, medium dark green, pointed. Fit to pick 65 days from planting. Seed large, blue and round, dented. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

**EARLY WONDER**

A medium early variety of exceptionally good quality. Pods are a bluish-green color, about 4 inches to 5 inches long, filled with 4 to 5 large, dark green peas. Height of vines about 40 inches with dark green foliage of vigorous growth. As this is a hardy sort it can be planted earlier than the other varieties. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**ALDERMAN**

This variety produces enormous pods 5 inches long and upwards, containing from 5 to 6 large dark green peas and are mostly produced in pairs. This makes them much less tedious to pick. The plant is of strong growing habit, requiring stakes, but produces enormous crops. The pods are of unusually attractive appearance when placed on market, and are always saleable. We especially recommend this variety, as it is one of most excellent quality and comes in late, after other varieties are too old. Matures in 89 days. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

**EDIBLE POD PEAS****MELTING SUGAR**

One of the best varieties. Can be used in a green state like string beans. Pt. 30c, qt. 50c, pk. \$3.00.

## Parsnip



Improved Hollow  
Crown or Guernsey

**CULTURE**—Parsnips are usually grown on deep rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots coarse and ill-shaped. As the seed is sometimes slow and uneven in growth, it should be sown as early as possible in drills 2½ feet apart; cover ½ inch deep and press the soil firmly over the seed. Give frequent cultivation, and thin the plants to 6 inches apart in the row.

### IMPROVED HOLLOW CROWN or GUERNSEY

An excellent variety for the table. Roots long, with

smooth white skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top or crown of the root. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

## Pumpkin

**CULTURE**—Pumpkins are not so particular in regard to soil as Melons or Cucumbers, but are cultivated much the same. Plant seed about 10 feet apart, in hills, dropping about 10 seed to a hill. When plants are well started, thin to 3 plants to each hill. To plant in corn place seed about every third or fourth hill after the last working.

### WINTER LUXURY

This is one of the best pie Pumpkins in existence, and its Winter-keeping qualities are almost unequalled. Is slightly oval in shape and of medium size. Evenly and finely netted, and is a yellowish russet color. The flesh is very tender, sweet and rich golden in color. A great producer. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

### SWEET POTATO PUMPKIN

This is without doubt the best for table use, resembling somewhat the Cushaw, but much prettier in color. A handsome green and white striped. Flesh yellow, solid, fine-grained and a delicious flavor. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

### KING OF THE MAMMOTH

The giant among pumpkins; specimens have been grown to weigh 60 pounds and reaching two feet or more in diameter; fruit round and flattened, slightly ribbed; skin salmon-orange, flesh bright yellow and very thick. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

### CUSHAW or CROOKNECK

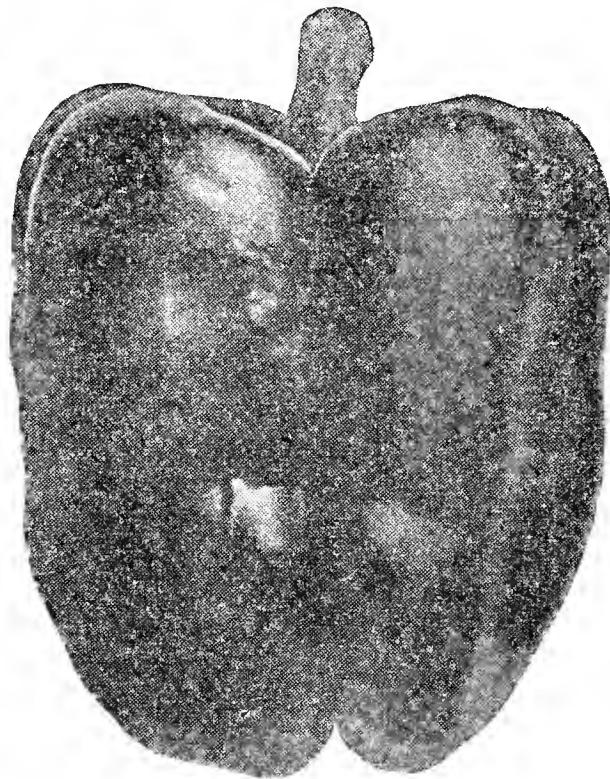
An old standard variety, which is very long yellow crook-neck, fine-grained, yellow flesh, very solid. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

### CONNECTICUT FIELD

Usually planted for feeding stock. So well known that it needs no description. Oz. 10c, ¼ lb. 25c, lb. 75c.

## Pepper

**CULTURE**—Peppers are most largely used for seasoning meat and vegetable dishes, also for making chow-chow and Chili sauce. The culture is the same as for Eggplant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of Spring in open seed bed, the soil being light and warm. When 3 inches high transplant in rows about 2½ feet apart and 2 feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about 6 inches high will undoubtedly increase the product.



LARGE BELL or BULL NOSE

Our stock of this well-known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about 2 feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh, of excellent quality for use in salads and man-goes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Pkt. 10c, oz. 25c, ¼ lb. 75c.

### NEW CHINESE GIANT

The fruits of this variety are of monstrous size, even when put alongside such a large kind as Ruby King. The shape is more blocky than Ruby King, being almost square, or about the same diameter both ways. Color brilliant glossy scarlet. It is so immensely productive that frequently a half dozen peppers will touch one another. The habit of growth is strong and stocky, about 18 to 24 inches high. Usually 3 or 4 fruits are set first near the base, and while these are ripening a second setting is growing higher up. Flesh is thick and meaty and entirely free from any fiery flavor. Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

### CALIFORNIA WONDER

Resembles Chinese Giant in the large size and "blocky" form of its fruit, but having an extremely thick, mild, sweet flesh not possessed by that variety. Fruit indistinctly 3-lobed, upright, crimson, measuring 4½ inches in length by 4 inches in diameter. Rather late in maturing Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

### LONG RED CAYENNE

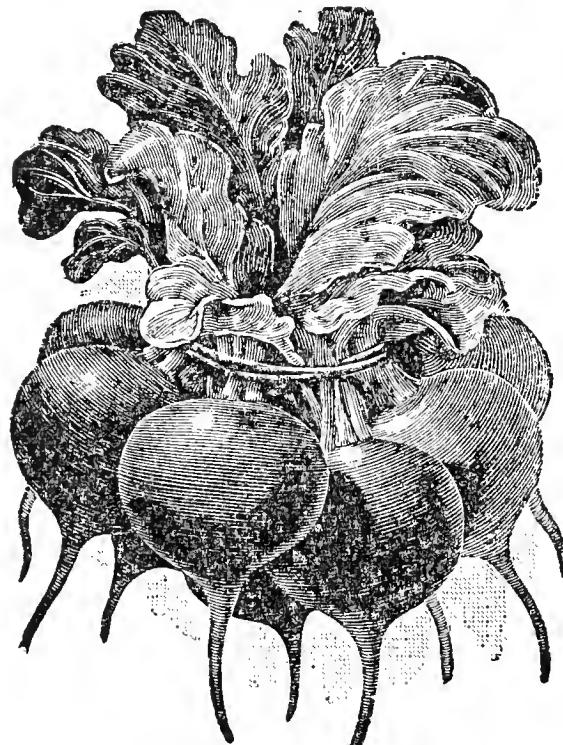
A well-known medium-early variety, having a slender, twisted and pointed pod about 4 inches long; color deep green when fruit is young, bright red when ripe. Pkt. 10c, oz. 25c, ¼ lb. 75c.

# RADISH

**CULTURE.**—For open-ground culture sow on rich sandy soil as soon in the Spring as it is fit to work, in drills 12 to 18 inches apart, and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowing from 1 week to 10 days apart will keep up a supply. After the hot weather of Summer begins, it is better to sow the Summer and Winter varieties, as they do not become tough and stringy nor pithy so quickly as the earlier sorts. One ounce of seed to 100 feet of drill.

## W.-D. CO.'S EXTRA EARLY SCARLET GLOBE

**SPECIAL STRAIN** (Grown from Transplanted Stock). A very desirable sort for hotbed forcing and for planting in the open ground. Very early, flavor mild, crisp and tender. Will stand heat without becoming pithy. Bright scarlet and of handsome shape. Our special strain is American grown and is selected with the greatest care as to the size of tops in order to have them just the right length for bunching. Pkt. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c, 10 lbs. \$4.25.



Extra Early Scarlet Globe

## SCARLET TURNIP, WHITE TIPPED

A good forcing variety; small size and very attractive, being a handsome bright scarlet with white tip. Very early and of good quality. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## ICICLE

A very attractive, pure white Radish; the earliest of the long white Summer sorts and of most excellent quality. The roots are somewhat shorter, with smaller tops than the long White Vienna, and matures a little earlier. One of the most desirable varieties for outdoor Summer planting. It is also adapted for forcing. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## FRENCH BREAKFAST

Very rapid grower; mild and tender; beautiful scarlet color, white-tipped; oblong shape. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## EARLY LONG SCARLET

This is a standard, most excellent sort either for the home garden or the market. Tops short and comparatively small. Roots smooth, slender, uniform in shape and a very attractive bright red in color. They continue crisp until fully matured, when they are about 6 inches long. Pkt. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

## MODEL WHITE BOX

Of quick growth; roots round, pure white; tails very thin, leaves short; flavor excellent. Fine for forcing and open ground. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## WHITE STUTTGART

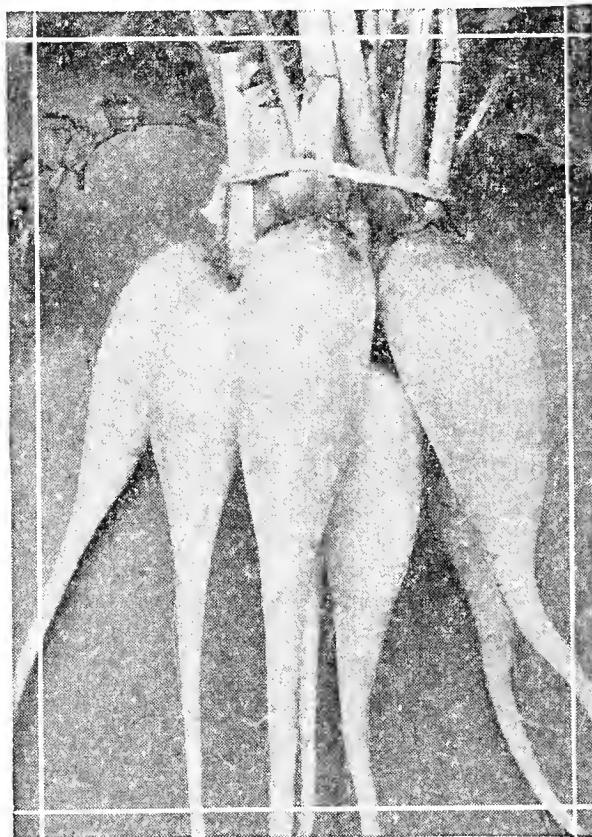
A Summer variety. Grows to an immense size; white flesh, very crisp and tender; of good flavor and a good keeper. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## GOLDEN GLOBE

This variety is of quick growth, affording crisp and tender Radishes even in the hottest climate, and is extensively grown in the South. Root uniformly globe-shaped, with skin golden yellow in color; about 2 inches long by  $2\frac{1}{4}$  inches in diameter when matured. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## WHITE STRASBURG

Even when comparatively small this variety is in good condition for use, and continues crisp until matured, when the roots are 4 to 6 inches long by  $1\frac{1}{2}$  to 2 inches in diameter. This is considered one of the best large white Summer sorts. The roots remain in condition for use much longer than the early varieties. Pkt. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, 10 lbs. \$5.00.



White Strasburg

## WINTER VARIETIES

### WHITE CHINESE or CELESTIAL

Roots long, cylindrical, with beautiful white skin and flesh; the whitest and usually the least pungent of the Winter varieties. Flesh compact and crisp. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### LONG WHITE SPANISH

Long and tapering, and when full grown measuring 6 to 9 inches long. Skin white; flesh white. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### ROUND WHITE SPANISH

Root round, turnip-shaped, pure white. A good Winter-keeping variety. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### LONG BLACK SPANISH

One of the latest and hardest long Radishes, especially adapted for Winter variety. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### ROUND BLACK SPANISH

Round, sometimes slightly top-shaped. Skin black; flesh white. Keeps well through the Winter. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## Rhubarb

**CULTURE.**—Rhubarb succeeds best in deep soil. Work in the soil a goodly quantity of well rotted manure and stir thoroughly. Sow the seed in rows an inch deep and thin the plants to 6 inches apart. In the Fall the young plants should be transplanted 3 to 4 feet apart. The stalks should not be taken for use the first year.

### VICTORIA

A hardy and excellent sort for both the home garden and the market gardener. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

**RHUBARB ROOTS (Victoria).** To save time and be sure of a crop, it is advisable to plant the roots. Each 10c, per dozen \$1.00.

## Salsify or Oyster Plant



Mammoth  
Sandwich  
Island

**CULTURE.**—Seed should be sown in early Spring in light, rich soil, in drills 14 inches apart, and thin to 6 inches in the row. The roots are perfectly hardy and many remain out all Winter.

### MAMMOTH SANDWICH ISLAND

This variety is large and strong, growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. Tops grassy. It is invaluable for market gardeners' use. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

## Sorrel

**CULTURE.**—Sow in drills early in Spring, thin out to 6 to 8 inches apart in the row. Commence cutting about 2 months after planting. Sorrel is hardy, will continue to bear for three or four years. One ounce will sow 100 feet of drill.

### LARGE LEAVED FRENCH

The best garden variety, having large pale green leaves of fine quality, resembling spinach, only not so broad. Perfectly hardy, can be cut five or six times. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

## Swiss Chard

### SPINACH BEET

**CULTURE.**—Sow the seed in rows and treat about as you would beets. Thin the plants to about 6 inches in the row.

### LUCULLUS

Large, smooth leaves with silvery white stems, which are tender and of fine flavor. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

### FORDHOOK GIANT

A new variety with curled leaves like a Savoy cabbage. The plant grows nearly two feet high and the stem and leaves are very large and of fine quality. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## Sweet Herbs

Do not fail to include some or all of these most delicious and fragrant garden herbs in your order. They are easily grown and comparatively few housewives know of the delicious and appetizing flavors to be had by the addition to many dishes of one or more of the old-fashioned herbs.

**CULTURE.**—Sow the seed as early as the ground can be worked, in rows 16 to 18 inches apart. See that the soil is worked fine and pressed firmly over the seed. Thin the plants as soon as they are large enough.

### ANISE

An annual, cultivated for its seed which are used as a condiment. The leaves are also used for garnishing. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 50c.

## BALM

A perennial, and an old-fashioned Febrifuge; also used for seasoning and for liquors. Pkt. 10c, oz. 25c.

## SWEET BASIL

A hardy, aromatic annual, used chiefly for flavoring soups, stews, sauces, etc., flavor is somewhat similar to cloves. Pkt. 10c, oz. 15c.

## BORAGE

Hardy annual, leaves are used in salads, the crushed leaves immersed in water give an agreeable flavor. The blossoms are excellent for bees. Pkt. 10c, oz. 15c.

## CARAWAY

Grown for its seeds, which are used in cakes, confectionery, etc. The leaves are sometimes used for flavoring in soups and liquors. Plants do not seed till next year. Pkt. 10c, oz. 15c.

## CORIANDER

A hardy annual, grown for its seed which has an agreeable taste and is used in confectionery and liquors. Pkt. 10c, oz. 15c.

## DILL

An annual of aromatic odor and warm, pungent taste. Used for flavoring pickles and stews, being particularly desirable for use in cucumber pickles. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## SWEET FENNEL

Biennial, the seeds of this aromatic herb have a pleasant taste. The blanched base of the stem, when cooked has a sweet taste, a delicate odor and somewhat resembles celery. The young shoots are sometimes eaten raw and are used in salads, soups, etc. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c.

## HOREHOUND

This perennial is grown principally for its leaves which are used in medicines for coughs and colds. Pkt. 10c., oz. 25c.

## LAVENDER

A hardy perennial, growing about 2 feet high. It is used for the distillation of lavender water or is dried and used to perfume linen. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 75c.

## SWEET MARJORAM

An aromatic herb for seasoning. The tender tops and leaves are used green in Summer to flavor broths, dressings, etc.; they are also dried for Winter use. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

## ROSEMARY

A hardy perennial for flavoring meats, soups and for medicinal purposes. Pkt. 10c, oz. 25c.

## SAGE

(Broad Leaf.) This is the most extensively used of all the herbs. Hardy perennial, about 15 to 18 inches high. Used principally for flavoring and seasoning. Cut the leaves and tender shoots just before the plant comes into flower, and dry quickly in the shade. The plant will survive the Winter and may be divided. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

## SUMMER SAVORY

A hardy aromatic annual, 12 to 15 inches high; the dried stems, leaves, and flowers of which are used for flavoring soups, dressings, stews, etc. Pkt. 10c, oz. 15c.

## THYME

An aromatic perennial herb, used both medicinally and for seasoning. The young leaves and tips are for soups, stuffing and sauce, also a good tea for the relief of nervous headache can be made from the leaves. The leaves should be dried for Winter use. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.50.

## WORMWOOD

A perennial plant of fragrant, spicy odor, but with intensely bitter taste. The tops and leaves, gathered and dried when the plant is in flower, are used as a tonic, a vermicifuge, and as a dressing for fresh bruises; a fine poultry tonic. Pkt. 10c, oz. 25c.

# SPINACH

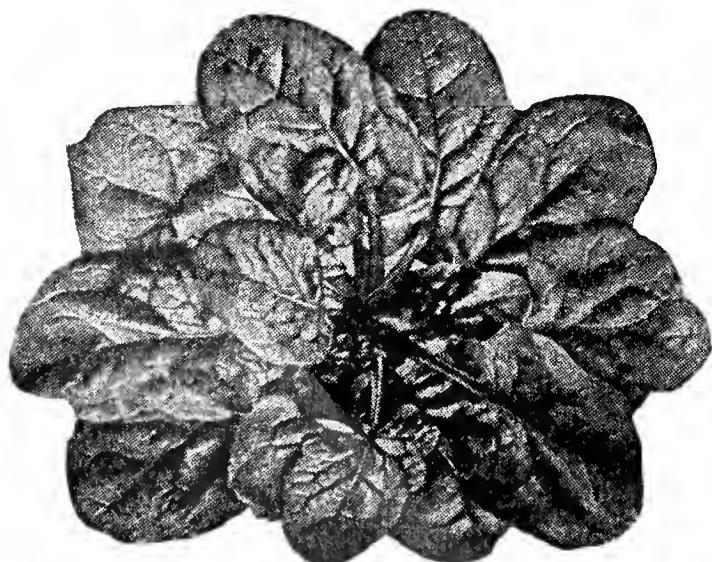
**CULTURE.**—For early Summer use, sow as early in the Spring as the ground can be worked and for later use until April, after which time it runs to seed, except the New Zealand which is a Summer variety. For Winter use, sow from August to the middle of November. Spinach will not thrive on poor soil, therefore select a rich piece of soil, well fertilized. It is best to sow in drills 12 to 18 inches apart, 1 to 1½ inches deep. When the plants are well started they should be thinned out to about 6 to 8 inches apart in the row. Being of a delicate nature, it is sometimes difficult to get a good stand, this is particularly true if weather conditions are not favorable. 1 ounce to 100 feet of row, 12 to 20 pounds to the acre.

## RESELECTED BLOOMSDALE SAVOY

A distinct improvement over the old Bloomsdale Savoy, in that it is extremely early, very hardy and withstands the Winter very well. The leaves are beautifully crumpled and blistered and free from pointed leaves; rich deep, glossy green; of splendid quality. A rapid grower; suitable for Fall or early Spring planting. The seed we offer has been carefully reselected and rogued for all faulty plants. Seed round. Oz. 10c, ¼ lb. 15c, lb. 25c.

## VIRGINIA BLIGHT RESISTANT SAVOY

A Savoy-leaved sort, bred at the Virginia Experiment Station for blight resistance. Upstanding, vigorous plants, seeding rather early; highly desirable for planting in infested soil. Oz. 10c, ¼ lb. 15c, lb. 30c.



Long Standing Savoy

## NEW LONG STANDING BLOOMSDALE SAVOY

In appearance quite similar to the Bloomsdale strain, may be of a little more compact growth, the leaves being more intensively green. Nearly as early as our Reselected Bloomsdale, and on account of nearly total absence of male plants it stands heat remarkably well. When other kinds have bolted to seed, it does not even show the least inclination to shoot and will stand up and remain in prime condition for at least two weeks longer. What this means to the market gardener may readily be seen. Oz. 10c, ¼ lb. 15c, lb. 30c.

## PRINCESS JULIANA

Compact habit, slow growing and very long standing. Leaves rounded, with short stems; thick, crumpled, very dark green; withstands warm weather, making it desirable for late planting. Oz. 10c, ¼ lb. 15c, lb. 30c.

## EXTRA DARK GREEN SAVOY

Darker green than ordinary Bloomsdale varieties; stands 10 days longer before bolting to seed, is very crumpled and stands the heat better than the Bloomsdale varieties. Oz. 10c, ¼ lb. 15c, lb. 30c.

## OLD DOMINION BLIGHT RESISTANT

Of recent introduction. A cross between the blight resistant Savoy and King of Denmark, by the Virginia Experiment Station. We highly recommend it for early Spring planting, but not for Fall or mid-winter as it is a slow grower. Does remarkably well on disease infested soil. Oz. 10c, ¼ lb. 15c, lb. 30c.

## SPECIAL SUMMER SAVOY

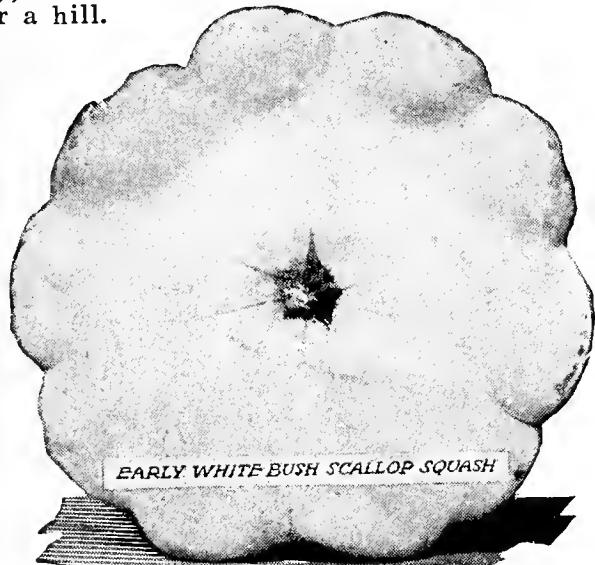
Resembles in general appearance a fine strain of Long Standing Bloomsdale, except that it is a shade darker green and a trifle more curled. But its greatest advantage is the better suitability as a Summer Spinach. Pkt. 10c, ¼ lb. 15c, lb. 30c.

## NEW ZEALAND

Unlike true spinach; it is absolutely distinct in form and habit of growth. It is not a spinach, though used as such. The foliage is thick, succulent, dark green and never sunburns. The plant becomes very large and spreading, with comparatively small leaves; later in maturing than spinach of usual form, but remaining in edible condition ten times as long. A sort to "Cut and Come Again," as it is most productive. Can be grown successfully on rich or poor soil. Plant three or four seeds in hills two feet apart each way. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

## Squash

**CULTURE.**—Squash plants are very tender and sensitive to cold, and so planting must be delayed until settled warm weather. General methods of culture are same as for Cucumbers and Melons, but Squash is less particular as to soil. Summer varieties should be planted 4 to 6 feet apart each way, and Winter sorts 8 to 10. Three plants are sufficient for a hill.



### W.-D. CO.'S EARLY BUSH SCALLOPED (Greenish Tint)

This is a very early Summer variety; fruit flattened and scalloped, about 8 inches in diameter. Comparatively smooth on the surface. Color white, with a distinct greenish cast. Very prolific. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### BLUE HUBBARD

Has the general shape of the Hubbard squash family, but the outer shell is a bluish-green color and is comparatively smooth, though not entirely so. The flesh is a golden orange color, and cooks dry. Keeps well, as do all the Hubbards. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 90c.

### SUMMER CROOKNECK

An old standard sort, early and productive. Fruits, when fully grown, are about 1 foot long, with uniformly crooked neck and surface densely warty. Color yellow. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

### BOSTON MARROW

A very productive Fall and Winter variety of medium to large size, oval shape, skin thin. Orange color; flesh fine-grained and of excellent flavor. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

### HUBBARD

Vines vigorous and very productive. Fruit heavy, moderately warty, with very hard shell. Skin a dark bronze-green. Flesh a bright orange-yellow, fine-grained, thick, dry and richly flavored. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. \$1.00.



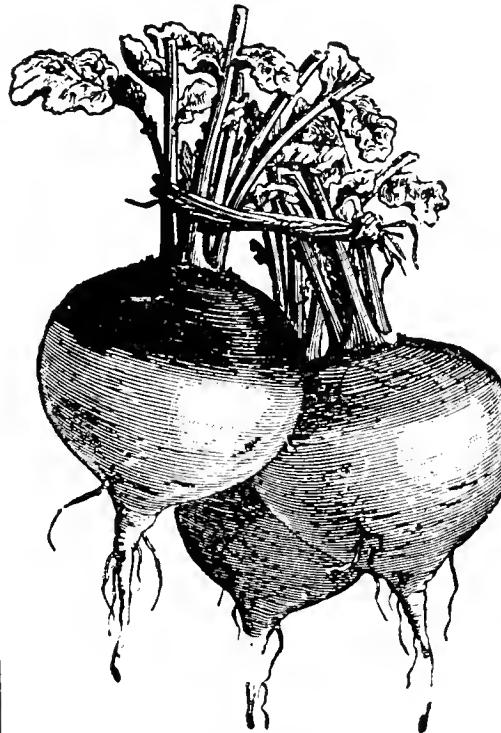
Boston Marrow Squash

### COCOZELLE or ITALIAN GREEN STRIPED

Produces a good crop of practically straight Squash on a bush similar to Crookneck, but the leaves are somewhat different in appearance. When young dark green, afterwards light yellow. Excellent for slicing and frying like eggplant. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

## Turnip

**CULTURE.**—For Summer use sow early in Spring in light, rich soil, in drills  $1\frac{1}{2}$  feet apart, according to the size of the variety, and cover  $\frac{1}{2}$  inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. For Fall and Winter use sow the seed from middle of June to the first of August and in the manner given for Spring sowing. In the field Turnips are often sown broadcast at the rate of  $1\frac{1}{2}$  pounds to the acre.



### PURPLE TOP WHITE GLOBE

(See cut.) This excellent table variety is globular in shape, of good size and very attractive in appearance. The roots are large, purple, or dark red above ground, white below. The flesh is fine-grained and tender. This sort keeps well for so early a variety and is one of the best for market use. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

### EXTRA-EARLY PURPLE-TOP MILAN

Very early, fine-grained white flesh. Flat and of good size. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

### COW HORN or LONG WHITE

This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, slightly crooked and grows nearly half out of the ground. The flesh is fine-grained and well flavored, and for table use is in best condition when the roots are about 2 inches in diameter. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

### YELLOW or AMBER GLOBE

Very large, yellow-fleshed, fine-grained variety. Excellent for table use or feeding stock. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

### SEVEN-TOP

Cultivated extensively for the tops, which are used for greens. In many sections it is a favorite feed for stock. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

### YELLOW ABERDEEN

Very hardy and productive, a good keeper; globe-shaped; color pale yellow, with purple top. Very firm in texture, and closely resembling the Ruta-Bagas in good keeping qualities. Good either for table or stock. Pkt. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

## Rutabagas, or Swedes

### LONG ISLAND or CANADIAN PURPLE TOP

This variety is superior in many ways to that of the old Purple Top type, as it is larger and more smooth, neckless and of a fine round shape, bright yellow color, fine grain and sweet. Very firm and will keep longer and ship better than any other sort. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### AMERICAN IMPROVED PURPLE-TOP

Yellow-fleshed. An improvement over the ordinary Purple-Top in that it has a smaller and much shorter top. Splendid for family use or feeding stock. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

## TOMATOES

Our Tomato Seeds are grown for us by growers of the highest integrity and subjected to a very rigid inspection and separated from the tomato by the proven disease control method, fermentation of the whole pulp. The greatest

**CULTURE.**—Tomatoes do best on light warm, not over-rich soil, and success depends largely upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hotbeds from 6 to 8 weeks before they can be set out of doors, which is when danger from frost is past. When the plants have 4 leaves transplant into shallow boxes or cold frames, setting them 4 to 5 inches apart. Give plenty of air and endeavor to secure a vigorous but steady and healthy growth, so that at the

care is used that they shall be true, pure and reliable. Our stocks are well chosen single plant selections, line bred and the fields frequently, carefully and thoroughly rogued.

time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark green color. Transplant carefully and cultivate well as long as the vines will permit.



W.-D. Co.'s "Wisdom"

### THE "WISDOM"

The fruit is perfectly solid and meaty, with but very few seeds. One outstanding feature of this variety is the fact that it puts forth such a heavy, healthy green foliage, which protects the fruit from the sun rays and thereby prevents sun scald. Our field tests have shown it to be blight resistant and wilt proof. We are the Originators and Growers. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.25, lb. \$4.00.

### KELLY'S RED

Deep red, very solid and meaty making a good shipping variety, uniform in size and very prolific. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

### BONNY BEST

About 10 days earlier than Chalk's Jewel, and nearly as early as Earliana. It is a strong, vigorous grower, very prolific, heavy foliage, which acts as a protection from the hot sun. The fruit is round, red, with delicious flavor, very uniform in size and shape. Does not have the green surface like the Earliana. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

### IMROVED NEW STONE

One of the largest and most solid late, bright red varieties. Vine large, vigorous and very productive. Fruits deep scarlet, nearly round or slightly flat. Smooth and uniform in size. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

### CHALK'S EARLY JEWEL

Very large, smooth, red and especially fine-flavored variety. Within 10 days as early as Earliana. Very prolific. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

### PENN STATE EARLIANA

The earliest of all Tomatoes. Especially valuable for this reason, being 10 days to 2 weeks earlier than any other sort. A bright red color; solid and very prolific. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.75.

### JOHN BAER

A second-early, scarlet-fruited variety. The fruit are round, medium sized, smooth and high crowned. Cell structure is irregular and quite solid. Fruit set in clusters of from 4 to 6. Vine makes good, but not heavy growth. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

### MARKET CHAMPION

Of recent introduction. Vines large and hardy; fruit bright red, deep and slightly flat in shape. Ripens well up to the stem end. Very productive, main crop variety. A very good sort for the trucker and the market gardener. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.25, lb. \$4.00.

### MY MARYLAND

A good medium-early sort and a heavy bearer. Excellent for truckers and market gardeners generally. A good packing variety. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

### PRITCHARD or SCARLET TOPPER

One of the late Dr. Pritchard's developments and introduced by the U. S. Department of Agriculture in 1931. A second early variety, a heavy yielder and of the type called self-topping or pruning. The fruit are of medium size, deep scarlet, globe shaped and solid. Its shipping qualities are unexcelled. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.25, lb. \$4.00.

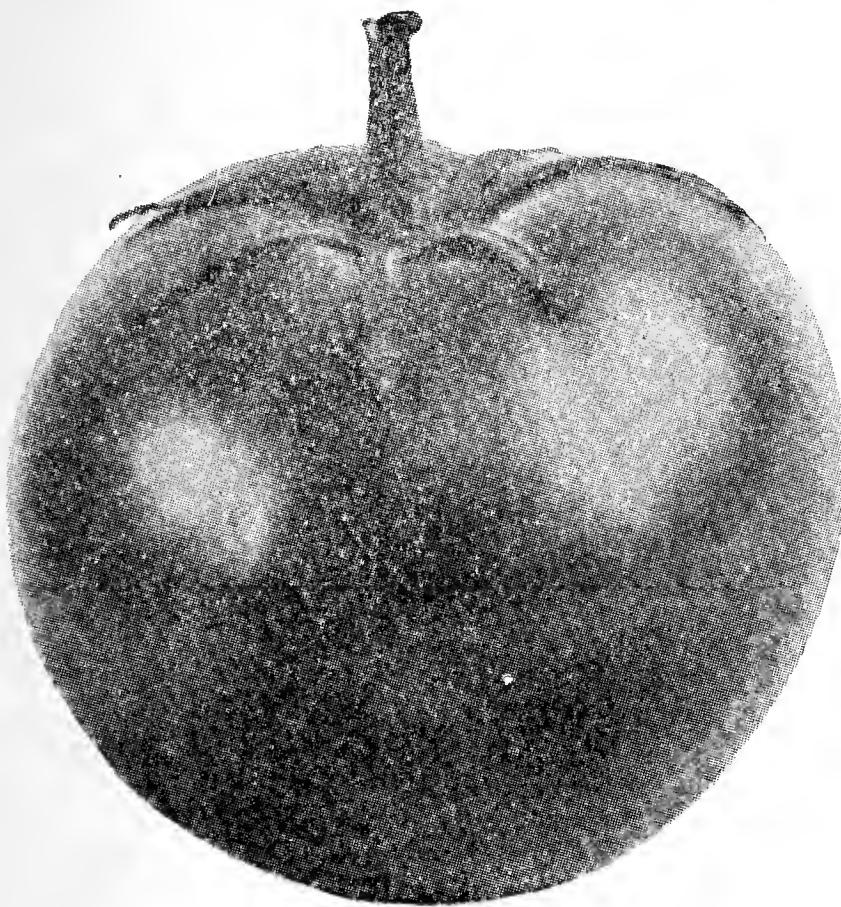
### GREATER BALTIMORE

A mid-season or main crop variety. Brilliant red color, vines sturdy and vigorous, very solid and firm. A good variety for canning or shipping. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

### RUTGER

A splendid packing variety. Planted very extensively in the New Jersey trucking section with gratifying results. Vines of heavy growth and very productive, fruit a bright scarlet and inclined to be slightly flat. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.00.

# TOMATOES



## **W.-D. CO.'S NEW EARLY RED**

If you would have a bumper crop of quality tomatoes, you should plant the New Early Red. We do not hesitate in saying "IT IS THE BEST," and this is the sentiment of our customers who have planted this variety.

## **WISEMAN-DOWNS CO.'S WILTPROOF**

By the careful selection of the seed stock, as to quality, color, growth of vine, blight resisting qualities, etc., and by crossing the different varieties we have truly succeeded in producing a true wiltproof tomato; the vine of which is of remarkably strong growth, often times putting out second growth and covering the ground in five foot rows, making an excellent protection to the fruit from the hot sun rays. The fruit is of globular shape, but inclined to be deeper than any other variety. Perfectly smooth, no ridges and of a nice size. Very solid and meaty and comparatively few seeds. The color is a beautiful red and of a very attractive appearance. Immediately productive. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.25, lb. \$4.00.

## **BREAK O' DAY**

This variety was introduced by the late Dr. F. J. Prichard and is fast becoming one of the most popular. The fruit is of a beautiful red, meat very fleshy, few seeds, shaped very much similar to Marglobe, but earlier in some sections, having reached maturity three days later than the Earliana. Vines of a healthy vigorous growth. Wilt proof and Disease-proof. Very prolific.

The seeds we offer are of our own growing from the original Dr. Prichard stock. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. 99c, lb. \$3.00.

## **MARGLOBE**

Let us here and now, emphasize the fact that we have only one variety of Marglobe Tomato and we are not going to attempt to substitute some other variety, or seed saved from some canning house in order to lower the price; so when you order Marglobe from us, you can rest assured you are getting the true strain as originally introduced by the late Dr. Prichard; selected with the greatest care, that they shall be true, pure and reliable. Fruit are well-sized, smooth, beautiful red color and of a very attractive appearance, globe shaped and almost coreless. Nationally known for its good canning and shipping quality. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.25, lb. \$4.00.

## **W.-D. CO.'S NEW EARLY RED**

It is Early, as our trials have shown it to be much earlier than the Marglobe and ripened very soon after the Earliana.

It is Red. It is a brilliantly colored tomato, with the color evenly distributed to the stem end and through the flesh. Its beautiful red color has attracted attention and quite an interest by dealers, growers, canners and others. It is of the round type, which the canners desire. The plants are vigorous in growth, wilt-resistant, and although the foliage is sufficient to give the tomato protection it is not dense enough to interfere with proper coloring. During recent years the canning houses have been encouraging the growing of an early round red tomato, and this one has certainly met the requirements, as to earliness, color, shape and productivity, and produces a very low percentage of culls. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.50, lb. \$5.00.

## **I. X. L.**

An earliest, scarlet-fruited variety. Fruit are of medium size, smooth, quite deep and solid. Cell structure is broken. The fruit sets in clusters of 5 to 9. Vine is open and spreading in growth. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. 99c, lb. \$3.00.

## **PONDEROSA**

A main crop, pink-fruited variety. The fruit are large, rather flat and inclined to roughness. Cell structure is broken and solid. From 3 to 5 large fruit in a cluster. Ponderosa is the largest, widely used pink tomato. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.50, lb. \$5.00.

## **GOLDEN QUEEN**

A main crop, yellow-fruited variety. The fruit are of medium size, smooth and of mild flavor. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.25.

## **SMALL-FRUITED VARIETIES**

For Preserves, Pickles and Decorative Purposes

### **RED CHERRY**

Fruits are small and round, about the size of a cherry, color red. Pkt. 10c, oz. 50c.

### **RED PEAR-SHAPED**

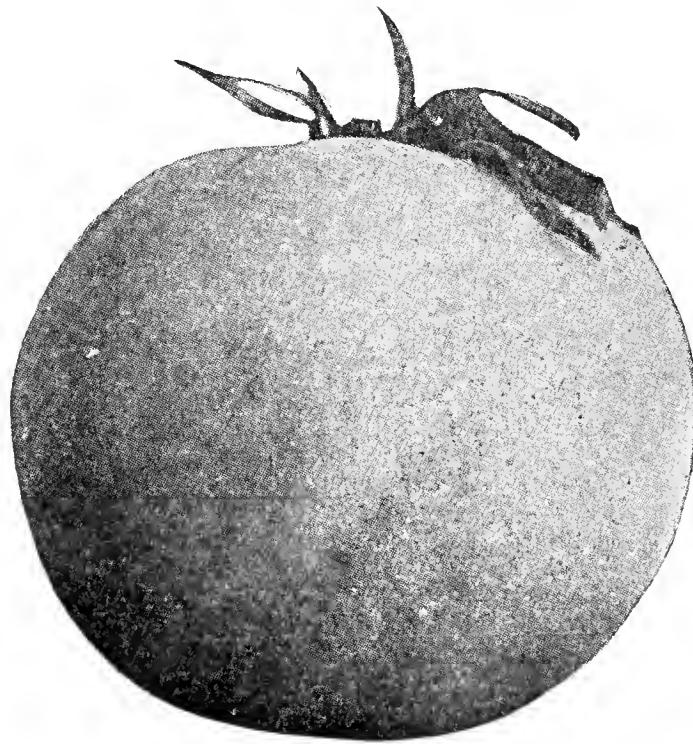
The fruit are small and as the name would indicate are pear-shaped. Pkt. 10c, oz. 50c.

### **YELLOW PLUM**

Small yellow fruit, plum-shaped, that is of oval form. Pkt. 10c, oz. 50c.

### **PEAR-SHAPED YELLOW**

Fruit small, color yellow and pear-shaped. Pkt. 10c, oz. 50c.



Marglobe

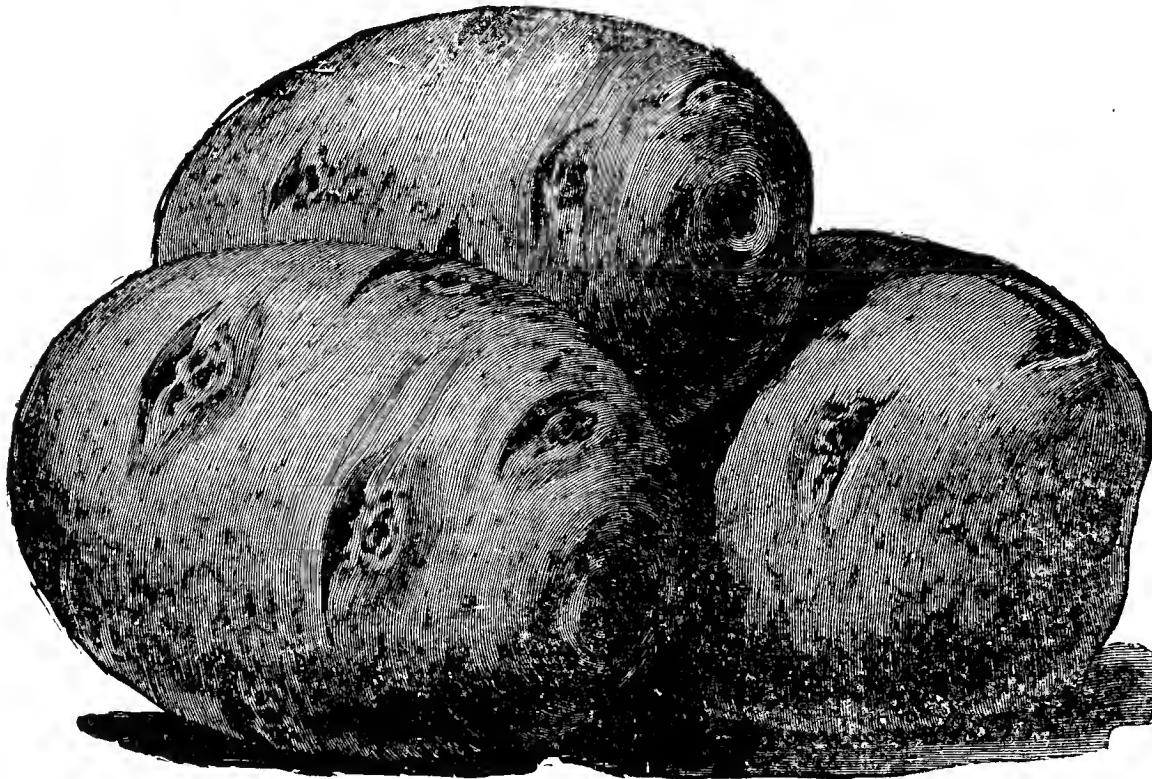
*For Bigger and Better Crops, Plant the New Early Red*

## SEED POTATOES

## Maine Grown

**CULTURE.**—Potatoes thrive better on light sandy soil, yet under favorable conditions a good crop may be obtained on heavier soil. If stable manure is to be used, see that it is well rotted and not allowed to come in contact with the tuber. Make rows 3 feet apart and plant about 8 or 10 inches apart in the rows. Cover seed about 4 inches if

ground is warm and dry; if cold and wet, cover 3 inches. Cultivate frequently to keep down the weeds. As the vines increase draw the earth around them, forming a slight ridge. When the bugs appear spray with Paris Green. Plant from 8 to 10 bushels to the acre.



## IRISH COBLERS

This is without a doubt the most popular variety grown. One of its chief characteristic features is that it makes few if any small potatoes, practically all being medium to large size and rarely ever a knotty one. A great favorite with the potato growers. Matures early; very productive; shape is round and chunky, with strong, deeply set, well developed eyes. Pure white flesh and cooks dry and mealy.

## NEW YORK EARLY ROSE

A leading variety for earliness, quality and productivity.

## RURAL NEW YORKER

A valuable variety, of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

## PROSPERITY

An extra large cropper; medium early; flesh white; cooks white and mealy.

## MAGGIE MURPHY

Very productive, oblong, somewhat flattened.

## TWENTIETH CENTURY

A very late and heavy cropper; one of the best for Winter keeping.

## MAINE or HOULTON EARLY ROSE

An old standard variety, so well known that it needs no description. Our stock of this variety is the very best.

## GOLD COIN

A good main-crop variety, very productive and of good table quality; slightly oblong form; light golden skin; flesh white, fine-grained; cooks very dry.

## GREEN MOUNTAIN

A splendid late-crop variety; an excellent keeper; very prolific.

## DAKOTA RED

A very late variety and yields even better than the McCormick. Oblong in shape; color red; flesh white and will cook dry and mealy; keeping qualities unexcelled; will yield from 25 to 35 bushels to one planted. Not to be confounded with the McCormick, as it is a true and distinct variety and of much better quality. The stock we offer is locally grown.

## RED BLISS

This variety has a pink skin, white flesh, very early, nearly round, good size, uniform cropper and a strong grower, cooks white and mealy.

## Sweet Potatoes

We can supply all the Leading Varieties in Season or from March 15th to April 15th.

## SWEET POTATO PLANTS—ALL KINDS

READY ABOUT MAY 1st

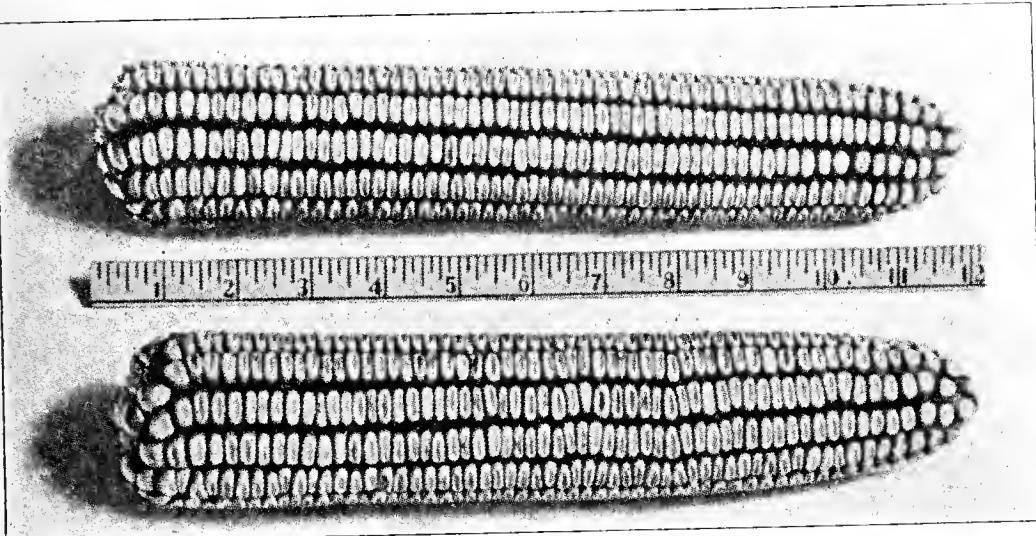
To prevent disease and to grow bumper crops of Potatoes, dip the tubers in "SEMESAN-BEL." See page 39. One pound will treat 60 to 80 bushels.

For blight on potatoes use Bordeaux Mixture. For potato bugs, use Arsenate of Lead, Arsenate of Zinc or Paris Green. For prices see pages 38 and 39.

*Owing to Market Changes, we Quote Prices Only upon Application*

## SELECTED SEED CORN

Our stocks are grown for seed purposes only; from the best strains that the most scientific corn-breeding methods have produced. Hand selected, field inspected, tipped and butted, germination 90 per cent or better.



### EUREKA ENSILAGE

Eureka is more universally grown for ensilage than any other one variety. It is a double purpose corn, for, aside from being a first-class ensilage corn, as a field variety it ranks high in yield. It is tall and leafy, 13 to 15 feet high, with an enormous growth of fodder. It bears one to two ears to the stalk, the ears frequently over 12 inches. The grains are medium large, flinty, closely placed on a small cob and are very high in protein. The ears are resistant to corn ear worm, weevil, ear rot and are seldom unsound. It makes ensilage in about 100 days. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### PEDIGREE BOONE COUNTY

This is the prize winner. It is a medium-late corn, requiring about 110 to 120 days to mature the grain. Grows a large, heavy, well-bladed fodder, and is an excellent corn both for the crib or silo. The ears are from 9 to 12 inches long and well proportioned, running about 20 to 22 rows of deep grain on a medium-sized, pure white cob, with deep, well-filled medium shank. The tips are also well filled, often completely covered. The kernels are of the Dent variety, moderately rough, very deep and wedge-shaped and form straight, compact rows. It will produce 20 to 25 tons ensilage per acre, and the cured fodder makes excellent dry provender. On good ground it will average 18 to 20 tons per acre. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### PAMUNKEY ENSILAGE

The tallest and best ensilage corn; large sturdy stocks, strong roots, no barren stalks, many with two large ears. Average twenty tons green silage per acre. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### IMPROVED WHITE DENT

Beautiful large, sound ear, broad, deep hard grain set close on a medium small cob; large, strong, vigorous stalk and foliage. Ears 11 inches long, medium dent. Matures in 120 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

### HICKORY KING

So large are the grains and so small the cob that on an ear broken in half a single grain will almost cover the cob section. Of a strong growth, the stalks take a firm hold in the ground and stand upright, resisting severe storms. It yields splendid crops on light soils and is undoubtedly the best and most productive White Field Corn for the South. Matures in 120 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

### SOUTH AMERICAN GIANT

Two or three ears on a stalk, length of ear 5 to 7 inches, color golden cream, creamy-white when popped. One of the best for popping.  $\frac{1}{4}$  lb. 10c, lb. 15c, 10 lbs. \$1.00.

### POP CORN

*Best by Test*

### IMPROVED LEAMING

Its extreme earliness has made it a favorite with the farmer, and especially with those in the localities where the seasons are short. Ears and grains are of medium size. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### IMPROVED GOLDEN DENT

Can always be relied on to make a satisfactory yield, makes one of the largest ears of any yellow corn, averaging 12 inches, very showy; named for its beautiful color, very prolific, stalks sturdy and strong. Matures in 120 days. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### REID'S YELLOW DENT

This is the prize-winning strain, having won prizes at both the Maryland and Virginia corn shows. The only strain to take the Gold Medal for yielding over 100 bushels per acre. It has large beautiful ears  $10\frac{1}{2}$  inches long and  $7\frac{1}{2}$  inches around, rough dent, 18 to 22 straight rows of deep, wedge-shaped grain, tight on the cob, and filled out at Butt and tip. Matures in 120 days. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

### LANCASTER COUNTY SURE CROP

A good cropper; excellent for silos. It is of the dent type, yellow on top, orange on sides, set close. Ears well-filled from butt to tip. Used almost exclusively by Pennsylvania farmers. Matures in 110 days. Qt. 15c, pk. 90c, bu. (56 lbs.) \$3.00.

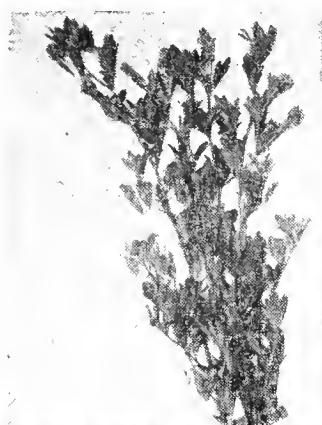


Improved Golden Dent

### WHITE RICE

A handsome, very prolific variety of White Pop Corn. Ears 5 to 7 inches long, 2 to 3 ears to stalk, stalks 7 to 8 feet high, grains long and pointed, somewhat resembling rice. A good popping sort.  $\frac{1}{4}$  lb. 10c, lb. 15c, 10 lbs. \$1.00.

## FARM AND GRASS SEEDS



Field of Alfalfa

### TIMOTHY (*Phleum Pratense*)

The most valuable of all the grasses for hay; thrives best on moist, loamy soils of medium tenacity. It should be cut just when the blossom falls. Sow early in the Spring or Fall, at the rate of 15 pounds per acre if alone, but less if with other grasses. Write for prices.

### KENTUCKY BLUE GRASS (*Poa Pratensis*)

It is the most nutritious, hardy and valuable of all Northern grasses. Sown with White Clover, it forms a splendid lawn. If sown by itself for meadow or pasture, use about 28 pounds per acre. Write for prices.

### ORCHARD GRASS (*Dactylis Glomerata*)

Desirable for its quick growth and valuable aftermath. It is ready for grazing 2 weeks earlier than any other grasses, and when fed off is again ready for grazing in a week, and will continue green after all other grasses are withered by dry weather. It is palatable and nutritious, and stock eat it greedily when green. If sown alone, about 28 pounds per acre are required. Write for prices.

### PERENNIAL RYE GRASS (*Lolium Perenne*)

A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow 30 to 40 pounds per acre in Spring. Write for prices.

### RED TOP (*Agrostis Vulgaris*)

This is known as Herd's Grass. It is a good, permanent grass, standing our climate well, and makes good pasture when fed close; is valuable for low, wet meadows, producing a large return in hay. When sown alone, use about 28 pounds of the chaff seed per acre. Sow in Spring or Fall. Write for prices.

### RHODE ISLAND BENT GRASS (*Agrostis Canina*)

A valuable perennial for lawns and pasturage. Much like Red-Top, only smaller. Thrives on light, dry soils as well as on rich, moist ones. Write for prices.

### WOOD MEADOW GRASS (*Poa Nemoralis*)

Grows from 1½ to 2 feet high; has a perennial creeping root, and an erect, slender, smooth stem. Well adapted to shaded places, such as orchards and parks, for either hay or pasturage. Sow about 30 pounds per acre. Write for prices.

### CREEPING BENT GRASS (*Agrostis Stolonifera*)

Particularly valuable for lawns that are to be used as golf and tennis grounds. Makes a low, velvety growth. Write for prices.

### MEADOW FESCUE or ENGLISH BLUE GRASS (*Festuca Pratensis*)

A perennial from 2 to 4 feet high, with flat, broad leaves. One of the standard European Grasses. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. An excellent pasture Grass to take the place of the wild grasses, as it yields a large amount of early and late feed. Sow about 40 pounds per acre. Write for prices.

### TALL MEADOW OAT GRASS (*Avena Elatior*)

A hardy perennial, much used in the South and West. Roots penetrate deep. It yields a heavy crop on any good soil, and is valuable both for meadow and pasture. Write for prices.

### SHEEP FESCUE (*Festuca Ovina*)

A small, tufted, hardy Grass, forming a cluster of narrow, cylindrical leaves. It is of value in mixture for lawns on dry soils and in shady locations. Sow about 35 pounds per acre. Write for prices.

### CANADIAN FIELD PEAS

When sown with oats, makes an elegant early green feed, also valuable for turning under as a soil improver as it adds a vast amount of nitrogen to the soil. Write for prices.

### BUCKWHEAT (Japanese)

Makes a very fine quality of flour, but is largely used for poultry food. The flower makes ideal bee food, also sown in or near game preserves, as it makes splendid food for the birds. Write for prices.

### SUDAN GRASS

This is extensively sown for green feed. Very often being used in preference to millet as it can be cut several times during the season.

### CHOICE SEED OATS

In these we offer only the very best varieties. Write for prices.

### GERMAN MILLET

Excellent for planting when other hay crops are short, as it is a very rapid grower and produces a very fine crop of hay. Write for prices.

### WINTER WHEAT

In season we carry a large stock of the best varieties.

### RYE

We carry both Winter and Spring Rye of the best quality. Write for prices.

### SUNFLOWER, MAMMOTH RUSSIAN

This makes an excellent poultry food especially for Winter use, on account of its fattening and heating qualities. Will yield sometimes as high as 60 bushels per acre. Lb. 10c.

### CORN (White Kaffir)

The grain is used for feeding poultry and the fodder for cattle. Grows from 4 to 6 feet high, the grain being produced on the top of stalk in the shape of a brush. Sow 10 pounds per acre in drills. Write for prices.

### SORGHUM or SUGAR CANE

Either green or in a cured state this makes ideal cattle food; it imports a splendid flavor to milk. Can be cut several times during the season. Sow 25 pounds per acre.

## FARM AND GRASS SEEDS — Continued



pounds Vetch with 30 pounds rye or wheat. A great soil improver.

### W.-D. CO.'S PASTURE MIXTURES

Our pasture mixtures are composed of the very best and highest grade of seed obtainable. They are especially selected for purity and germination and are thoroughly mixed by our special process, thereby assuring a very even distribution of each individual variety on the ground.

### CLOVER SEEDS

#### ALSIKE or SWEDISH (*Trifolium Hybridum*)

The most hardy of all Clovers; perennial. On rich, moist soil it yields an enormous quantity of hay or pasture, but its greatest value is for sowing with other Clovers and Grasses, as it forms a thick bottom and greatly increases the yield of hay. Sow the seed in Spring or Fall, at the rate of 10 to 15 pounds per acre, when sown alone. Write for prices.

#### GENUINE KANSAS ALFALFA (U. S. Verified Origin)

For hay, soil improvement and pasture it is unexcelled. Does not exhaust the soil; it enriches it. It supplies its own nitratin and stores it in the land to make bigger and better crops that follow it. Yields three to five cuttings of nutritious hay each season. The most valuable forage crop on the farm today; it pays constant dividends. The Kansas Alfalfa will stand our Winters better than any other sort, due to the fact that it comes through the severe Winters of Kansas with gratifying results and is therefore acclimated to severe cold weather. Sow the seed at the rate of 20 pounds to the acre; in May, August and September, these being the best months for success, although it can be sown at other times with a possible chance of doing well. To make doubly sure of a crop, it is advisable to inoculate the seed with NITRAGIN. See page 40.

#### BOKHARA or SWEET CLOVER (*Melilotus Alba*)

While extensively used as a bee food, this is a valuable variety for soiling (green manure); for sowing in Spring on lands which are later to be sown in Alfalfa, this is excellent. It inoculates the ground and seems to render it more capable of insuring a good stand of Alfalfa than if it is not used. It grows from 3 to 5 feet high, according to soil and location; can be cut as often as three times in a season if wanted for forage. Sow 15 pounds per acre in early Spring, alone, or 10 pounds per acre with other crops. We handle only the true white flowering hardy variety.

#### WHIPPOORWILL COW PEAS

Seed is reddish-brown speckled. Some claim that this variety is capable of gathering more nitrogen than others. Write for prices.

#### BLACK COW PEAS

This is a quick-growing variety, desirable for turning under. Write for prices.

#### NEW ERA COW PEAS

An early upright-growing variety; smaller seed.

#### SOJA BEANS

The great drought-resisting forage crop. A soil enricher, because of its nitrogen-gathering qualities. The fodder is relished in either green or dry form by cattle or dairy cows. Write for prices.

#### DWARF ESSEX RAPE

This makes an indispensable green food for sheep and hogs. It can be pastured 8 weeks after sowing. The growth is enormous. If one has the available land, it is good to sow in succession, as the stock eat it close to the ground, and it will not stand pasturing any great length of time. This, of course, depends upon the number of head turned on an acre. Sow 6 pounds per acre broadcast from April 1st to October 1st. It produces enormous crops and is an ideal green manure. 1 lb. 10c, 5 lbs. 40c.

#### WINTER or HAIRY VETCHES (*Vicia Villiosa*)

Sow from August 1st to October 1st, one bushel per acre when sown alone. If sown with rye or wheat, use 30

Forms a close heavy turf and will not be injured by close cropping and tramping of the animals. Plant 2½ bushels to the acre. 14 pounds to the bushel. In ordering please state if wanted for high or low land. 1 lb. 25c, 10 lbs. \$2.30, 25 lbs. \$5.50, 100 lbs. \$19.00.

#### JAPAN CLOVER or LESPEDEZA

The original Lespedeza. The poor land crop. Plant it to bring your poor land back to a state of productivity. Does exceedingly well on light sandy soils. Sow at the rate of 25 pounds to an acre. Does quite well when planted with Red Top Grass at the rate of 10 pounds of the Clover and 8 pounds of Red Top to an acre and will give a good grass that may be grazed upon till frost. The land does not need much preparation, just harrow and sow.

#### RED CLOVER (*Trifolium Pratense*)

This is by far the most important of all the varieties for practical purposes. Sow in Spring or Fall, and if no other grasses are used, at the rate of 15 pounds per acre. Write for prices.

#### CRIMSON CLOVER (*Trifolium Incarnatum*)

This is used principally for soiling or green manuring, for which purposes it is highly valuable. If desired for feed, cut it just before it flowers. When desired for green manure, it should be allowed to mature; its height is from 1 to 2 feet. Sow 20 pounds to the acre. Late summer or fall seeding is usually practiced. It is not hardy for more than one season and must be sown each year.

#### WHITE DUTCH (*Trifolium Repens*)

A small, creeping perennial variety, valuable for pasture and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. ¼ lb. 15c, lb. 40c.

#### KOREAN LESPEDEZA

In feeding value it is about equal to Alfalfa. It grows anywhere, on acid soils; waste lands, worn out gravelly soils and galled hillsides, where nothing else will grow. Reseeds itself every year, but is easily killed out by a cultivated crop. The strong root growth penetrates about 8 inches deep, making it highly drought resistant. A harrowing before sowing is the only preparation necessary. When sown alone broadcast 20 pounds to the acre during latter part of March or early in April. Do not cover the seed.

## Wiseman - Downs Co.'s RELIABLE FLOWER SEEDS

We present the following list as our selection of the best and most reliable of both domestic and foreign grown varieties and strains and feel sure they will please the most critical lover of flowers. We use every effort to procure the very best strains obtainable and spare no expense to accomplish same.

(A) ANNUALS are those flowers that bloom and ripen their seed the first year, then die. Among these will be found Asters, Balsam, Mignonette, Sweet Peas, Nasturtiums, Morning Glories, and many other very brilliant and

### ORDER BY NUMBER

#### **ACHILLEA (Yarrow)**

P-100—PTARMICA, "The Pearl."—Hardy White Perennial grows about two feet high. Pure white flowers. Pkt. 15c,  $\frac{1}{8}$  oz. \$1.00.

#### **ACONITUM (Monk's Hood)**

P-102—NAPELLUS.—Hardy Perennial. Thriving best in semi-shady places. Long spikes of blue flowers. 3 feet. Pkt. 15c,  $\frac{1}{4}$  oz. \$1.25.

#### **ACROLINIUM**

An "Everlasting"; can be dried and used in winter bouquets. Also fine for borders. Fifteen inches high.

A-105—DOUBLE ROSE.—Pkt. 10c, oz. 50c.

A-106—DOUBLE WHITE.—Pkt. 10c, oz. 50c.

A-107—DOUBLE MIXED.—Pkt. 10c, oz. 50c.

#### **ADLUMNIA (Allegheny Vine)**

Hardy climber; flowers first year from seed. Hardy Perennial.

P. C.-108—CIRRHOZA.—Pkt. 15c,  $\frac{1}{4}$  oz. \$1.25.

#### **AGERATUM (Floss Flower)**

Hardy Annual. Excellent for bedding or borders; blooms from early Summer till frost. Height about 2 feet. Beautiful feathery flowers.

A-113—BLUE BALL.—Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

A-114—DWARF WHITE.—Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

A-115—PURPLE PERFECTION.—Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-116—DWARF MIXED.—Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

#### **AGROSTEMMA (Mullein Pink)**

An attractive free-flowering hardy perennial. Fine for cutting.

A-126—ROSE OF HEAVEN.—Pkt. 10c, oz. 50c.

A-127—CRIMSON.—Pkt. 10c, oz. 40c.

A-128—ALBA.—Pkt. 10c, oz. 40c.

B-129—RED.—Pkt. 10c, oz. 40c.

B-130—MIXED.—Pkt. 10c, oz. 40c.



Alyssum

fragrant flowers. In fact, if you want flowers early in the season, and all the time until frost, a good selection of Annuals will not disappoint you.

(P) PERENNIALS are those flowers that endure our Winters with little or no protection, and live and bloom several years in succession. A large majority of the Perennials will bloom the first year if started early in the Spring. Hollyhocks, Larkspurs, Foxglove, Poppies, etc., are in this popular class.

### ORDER BY NUMBER

#### **ALYSSUM**

Very popular for baskets, edgings, rockwork or beds. Blooms all Summer; very fragrant.

A-140—MARITIMUM, Sweet White.—Pkt. 10c,  $\frac{1}{4}$  oz. 15c, oz. 50c.

A-141—COMPACTUM (Little Gem), Dwarf White.—Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

A-142—COMPACTIUM (Lilac Queen).—Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

A-143—MINIATURE, White.—Height 2 inches. Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

P-144—SAXATILE COMPACTUM.—Golden Yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 40c, oz. \$1.00.

P-145—SAXATILE.—Cloth of Gold. Pkt. 10c,  $\frac{1}{4}$  oz. 40c, oz. \$1.00.

#### **AMARANTHUS**

Very showy plants, some remarkable for their panicles of showy flowers and others for the brilliant range of colors in the leaves.

A-150—CAUDATUS (Love Lies Bleeding).—Long red panicles. Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

A-152—CRUENTUS (Prince's Feather).—Dark red feathery flowers. Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

A-154—MOLTEN FIRE (Summer Poinsettia).—The most beautiful of all. Blends beautifully with evergreens. Pkt. 10c,  $\frac{1}{4}$  oz. 90c, oz. \$2.50.

A-155—TRICOLOR (Joseph's Coat).—Red, yellow and green leaves. Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

#### **AMPELOPSIS (Boston or Japanese Ivy)**

P-156—VEITCHII.—A perennial climber, olive green leaves which turn to scarlet in the Fall. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

#### **ANCHUSA (Sea Bugloss)**

A-158—CAPENSIS (Cape Forget-Me-Not).—Blue, annual, blooms all Summer. 18 inches. Pkt. 10c,  $\frac{1}{4}$  oz. 25c, oz. 75c.

A-159—BLUE BIRD.—Of dwarf compact growth, light indigo blue. Pkt. 10c,  $\frac{1}{4}$  oz. 35c, oz. \$1.00.

P-160—ITALICA.—Dropmore variety; lovely gentian blue; grows three to five feet high. Hardy Perennial. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

#### **ANEMONE (Wind Flower)**

A very pleasing perennial; producing large flowers; fine for bouquets.

P-162—CORONARIA.—Mixed colors. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

#### **ANTIRRHINUM (Snap Dragon)**

One of the most charming of old-fashioned flowers, as they will bloom profusely from July until frost. Suitable for beds or borders.

A-166—SNOWFLAKE.—White. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-169—COPPER KING.—Coppery-bronze. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-170—BRILLIANT.—Scarlet and Yellow. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-171—CHEVIOT MAID.—Bright pink. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-173—CRIMSON KING.—Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-174—MONARCH.—Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-175—CANARY BIRD.—Yellow. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-176—DEFIANCE.—Brilliant scarlet. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-177—Special mixture of delicate shades. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

A-180—ANTIRRHINUM.—Rock Hybrids mixed. Suitable for rock gardens. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

**AQUILEGIA or COLUMBINE**

Hardy Perennials, very effective when grown in groups among shrubbery. Long spurred flowers on long wiry stems. Sow either in Spring or Fall.

P-185—LONG SPURRED HYBRIDS.—Pkt. 25c.

P-186—ROCKY MOUNTAIN COLUMBINE.—Single Blue. Pkt. 25c,  $\frac{1}{4}$  oz. \$2.25.

P-187—DOUBLE MIXED VARIETIES.—Pkt. 25c.

P-188—SINGLE MIXED VARIETIES.—Pkt. 25c.

**ARABIS (Rock Cress)**

Early Spring flowering perennials; excellent for rockeries or edging.

P-190—ALPINA.—Pure white. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

P-191—ALPINA ROSEA.—Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**ARCTOTIS (African Daisy)**

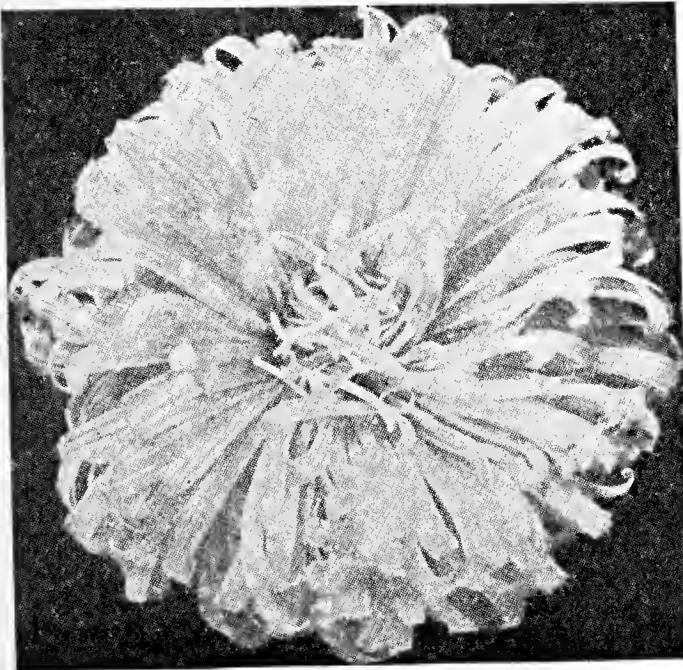
Produces beautiful white flowers with bluish centre; especially valuable as a cut flower, blooms lasting a week or ten days. Annual.

A-192—GRANDIS.—Pure white on upper surface. Pkt. 5c,  $\frac{1}{4}$  oz. 10c, oz. 75c.

**ASPARAGUS**

Especially adapted for planting in hanging baskets, window boxes, vases, etc.

193—SPRENGERI.—Pkt. 25c.



Aster

**ASTERS**

Unequalled for beauty, grace and usefulness, continuing in bloom from July to September. For early blooms sow the seed indoors in March or April. Annual.

**AMERICAN EARLY BEAUTY**

A-195—Azure blue. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-196—Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-197—Rose-Pink. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-198—Rosy-Carmine. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-199—Violet. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-200—White. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-201—All Colors, Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**AMERICAN LATE BEAUTY**

A-202—Azure Blue. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-203—Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-204—Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-205—Rose-Carmine. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-206—White. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

A-207—All Colors, Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**AMERICAN BRANCHING****Tall Double Varieties**

A-208—Antique Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-209—Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-210—Dark Blue. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-211—Lavender. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-212—Light Blue. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-213—Light Yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-214—Purple. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-215—Violet. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-216—White. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

A-217—All Colors, Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**AURETIA (Rainbow Rock Cress)**

A dwarf Spring flowering perennial, very attractive in rock work. Height 6 inches.

P-220—Dark Blue. Pkt. 15c,  $\frac{1}{4}$  oz. 75c.

P-221—Purple. Pkt. 15c,  $\frac{1}{4}$  oz. 75c.

P-222—Mixed. Pkt. 15c,  $\frac{1}{4}$  oz. 75c.

**BALSAM (Lady Slipper)**

An old and favorite flower, producing masses of beautiful brilliant colored double flowers in the greatest profusion.

A-225—CAMELIA FLOWERED.—Double Mixed. Pkt. 10c, oz. 75c.

**BELLIS (English Daisy)**

A low growing Spring flowering plant. Loves a shady place and will reward the gardener with a mass of blossoms for succeeding years, if left undisturbed. Hardy Perennial.

P-226—LONGFELLOW.—Red, Extra Double. Pkt. 10c,  $\frac{1}{8}$  oz. 60c.

P-227—SNOWBALL.—Double White. Pkt. 10c,  $\frac{1}{8}$  oz. 60c.

P-228—Double Mixed. Pkt. 10c,  $\frac{1}{8}$  oz. 35c.

**BRACHYCOME (Swan River Daisy)**

Beautiful blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches. Annual.

A-230—Blue. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-231—Alba, White. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-232—Rosea, Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-233—Mixed Colors. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**BOCCONIA (Plume Poppy)**

P-234—CORDATA.—A beautiful hardy perennial, with creamy flowers, blooming profusely. Height 5 feet. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**CACALIA (Tassel Flower)**

Fine for borders, blooms freely from June to September; yellow and scarlet tassel-shaped flowers.

A-240—Coccinea, Red. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-241—Aurea, yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-242—Mixed Colors. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**CALENDULA (Pot Marigold)**

Showy free flowering hardy annuals, producing a fine effect in beds or mixed borders.

A-245—ORANGE KING.—Rich dark orange. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

A-246—SPECIAL MARKET STRAIN.—Double Orange. Pkt. 10c,  $\frac{1}{2}$  oz. 30c.

A-247—CAMPFIRE.—Brilliant Orange and Scarlet. Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

**CALLIOPSIS**

Showy and beautiful, free-blooming annuals. Excellent for cutting. Blooms continuously from early Summer until frost.

A-250—GOLDEN WAVE.—Large yellow flowers with dark brown centers. 1 foot. Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

A-251—Choice Mixed Colors. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**CAMPANULA (Canterbury Bells)**

Hardy biennial, flowering the second season from seed producing large bell-shaped flowers of exquisite color.

B-253—MEDIUM.—Prize Mixture of all double, Calycanthema and single varieties, extra fine. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

P-254—CARPATICA.—Blue Dwarf. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

P-255—CARATICA ALBA.—Pure White. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**CANDYTUFT (Iberis)**

Very popular and hardy annuals, universally known and considered indispensable for cutting.

A-256—Finest Dwarf Hybrids, Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 30c.

A-257—Choice Mixture of only Umbellata Varieties in grand color proportion. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

P-258—CANDYTUFT.—Splendid Mixture of Perennials. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**CANNA (Indian Shot)**

Usually grown from bulbs, but can be raised from seed. Should be started early indoors.

A-259—GIANT NEW HYBRIDS.—Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

**CARDIOSPERMUM (Balloon Vine)**

A rapid growing annual climber; white flowers, followed by seed pods. Also known as "Love in a Puff." AC-265—**HALICACABUM**.—Baloon Vine. Pkt. 10c, oz. 25c.

**CARNATION**

Most popular and valued highly for their delicious fragrance and richness of colors. Mixed.

A-266—**MARGUERITE**.—Double Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**CELOSIA**

Hardy Annual. Very ornamental, beautiful foliage.

A-270—**CHILDSI** (Chinese Wool Flower).—A profusion of large crimson balls. Pkt. 10c,  $\frac{1}{2}$  oz. 75c.

A-271—**PLUMOSII** (Feathered Cockscomb).—Thompson's magnificent. Bronze colored foliage and graceful feathery plumes. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

**CENTAUREAS**

Well known hardy annual. Should be included in all old-fashioned gardens.

A-272—**CENTAUREA CYANUS** (Double Corn Flower).—Also known as Bachelor's Button, Ragged Sailor, and Ragged Robin. Double Mixed Varieties. Pkt. 10c, oz. 50c.

P-273—**WHITE LEAVED CENTAUREA** (Dusty Miller).—Grown for their beautiful silvery foliage. Pkt. 10c,  $\frac{1}{4}$  oz. \$1.00.

**CHRYSANTHEMUM**

Showy and effective garden favorites. Hardy Annuals. Beautiful colored daisy-like flowers.

A-275—Single Mixed. Pkt. 10c, oz. 25c.

A-276—Double Mixed. Pkt. 10c, oz. 25c.

**CINERARIA**

Unsurpassed pot plants for the home or conservatory.

277—**HYBRIDA GRANDIFLORA**.—Extra large flowered choice mixture. Pkt. \$1.00.

278—**MARITIMA CANDIDISSIMA**.—Silvery-leaved. Pkt. 10c.

**CLARKIA**

Beautiful Hardy Annuals, bearing small carnation-like flowers in soft pastel tints.

A-279—Double Mixed. Pkt. 10c, oz. 50c.

**COLEUS**

Very popular and novel foliage plants for house or garden culture.

P-280—**RAINBOW**.—Large Leaf Mixture. Pkt. 25c.

**CONVOLVULUS (Morning Glory)**

An old and well known hardy climber. Height 15 feet.

AC-281—**MAJOR**.—Splendid Mixture. Pkt. 10c, oz. 25c.

AC-282—**JAPANESE**.—Fine Mixed with fine waxy flowers. Pkt. 10c, oz. 35c.

**COSMOS**

A Summer and Autumn flowering hardy annual. Used to advantage in clumps for screens or backgrounds.

A-285—Mammoth Flowered. Single Mixed. Early and late. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

A-286—Double Mixed. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-287—**LADY LENNOX**.—Pink. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**CYPRESS VINE (Ipomea Quamoclit)**

Popular vine, fernlike foliage and masses of beautiful small star-shaped flowers. Mixed colors. Pkt. 10c, oz. 50c.

**DAHLIAS**

One of the most popular Summer and Autumn flowering plants. Very easily grown from seed. We offer the best in single, cactus and show varieties.

P-290—**CACTUS**.—Choice Mixed. Pkt. 25c.

P-291—**PEONY-FLOWERED**.—Mixed. Pkt. 25c.

P-292—**UNWIN'S DWARF HYBRIDS (Miniature)**.—Semi-Double Mixed. Pkt. 25c.

**DELPHINIUM (Perennial Larkspur)**

Long flower spikes, most beautiful shades of blue and purple. Seed should be started indoors in shallow boxes, early in Spring otherwise they will not bloom until the next year.

P-293—**W.-D. CO.'S PRIZE MIXTURE**.—A glorious strain, comprising outstanding colors and varieties. Pkt. 25c,  $\frac{1}{8}$  oz. \$1.50.

**DIANTHUS or PINKS**

Dianthus, or China Pinks

Most beautiful and satisfactory Summer flowering plants, unrivaled for brilliancy and rich variety of colors.

A-294—**CHINENSIS**.—Chinese Pink. Choice Double Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**DIGITALIS (Foxglove)**

Very showy, hardy plants. They are easily grown and produce freely; spikes 4 to 5 feet high, well furnished with Gloxinia-like flowers. Hardy Perennial.

P-295—**THE SHIRLEY**.—Large Flowered. Choice Mixed. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

**DOLICHOS (Hyacinth Bean)**

A rapid growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods.

AC-296—Choice Mixed Colors. Pkt. 10c, oz. 25c.

**ESCHSCHOLTZIA (California Poppy)**

Very beautiful and brilliant annual. They will grow nicely and bloom profusely over a long season in any sunny position.

A-300—**CALIFORNICA**.—Pure Yellow. Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

A-301—**ENCHANTRESS**.—Double Rose. Pkt. 10c,  $\frac{1}{2}$  oz. 75c.

A-302—Choice Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 50c.

**EUPHORBIA**

Plants of a very colorful foliage, very pleasing as they are quite a contrast to other plants having all green foliage, or others that are grown only for their flowers.

A-305—**VARIEGATA** (Snow on the Mountain).—Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

A-306—**HETEROPHYLLA** (Summer Poinsettia).—Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

**GAILLARDIA (Blanket Flower)**

A-307—**PICTA**.—Single Mixed. Hardy Annuals. Large daisy-like flowers, of yellow and bronze. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

A-308—**PICTA LORENZIANA**.—Double Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

P-309—**GRANDIFLORA**.—Hardy Perennial. Large flowered. Choice Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**GILLIA**

Very graceful annual, growing about 2 feet high with fine feathery foliage. Rich lavender blue flowers.

A-310—Tall Mixed Colors. Pkt. 10c, oz. 50c.

**GODETIA**

Very showy, of compact growth. Exquisite colors and shades that glisten in the sunlight like satin. Hardy Annuals.

A-311—Semi-Dwarf Mixed. Pkt. 10c, oz. 75c.

A-312—Dwarf Mixed. Pkt. 10c, oz. 75c.

**GOMPHRENA (Globe Amaranth)**

Flowers resemble clover heads and can be dried and used in Winter bouquets. Sometimes called Bachelor's Button.  
A-313—Mixed Colors. Pkt. 10c, oz. 50c.

**GOURDS, ORNAMENTAL**

Rapid growing, interesting annual climbers, with ornamental foliage and singular shaped fruit. We offer, ornamental mixed, Dish Cloth, Pipe or Calabash, Dipper, Nest Egg and Hercules Club.

AC-314—Mixed Varieties. Pkt. 10c, oz. 25c.

**GYPSOPHILA (Baby's Breath)**

Yields graceful sprays of pure white flowers. Fine cut flowers.

P-316—PANICULATA.—Hardy Perennial variety. Pure white sprays. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-317—ELEGANS (Alba Pura).—Annual variety. Pure white. Pkt. 10c, oz. 40c.

**HELENIUM (Sneeze Wort)**

Hardy Perennial, producing large daisy-like flowers of a golden yellow color.

P-318—HOOPESII.—Yellow with orange disc. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**HELICHRYSUM (Straw Flower)**

Hardy Annuals. Rich in glittering colors, generally grown to dry for use in Winter bouquets.

A-319—Choice Mixture of the following colors: Brown, Coppered, Crimson, Purple, Rose, Salmon and White. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**HELIOTROPE**

Always popular on account of its delightful fragrance. A half-hardy perennial flowering the whole season.

P-320—MAMMOTH FLOWERED.—Choice Mixture. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**HIBISCUS (Marshmellow)**

Showy ornamental plants for mixed beds or shrubbery borders, having large beautifully colored flowers. Hardy Perennial.

P-325—Giant Mixed. Pkt. 10c, oz. 50c.

**HOLLYHOCK**

Very popular hardy perennial; grown everywhere and valuable for a back ground.

P-326—Double Carmine-Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

P-327—Double Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

P-328—Double Maroon. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

P-329—Purplish-Violet. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

P-330—Double Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

P-331—Single Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

**IPOMEA**

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, arbors, trellises, or stumps of trees they are invaluable.

AC-332—IMPERIALIS (Japanese Morning Glory).—Pkt. 10c, oz. 35c.

AC-333—GRANDIFLORA (Moon Flower).—Blooms open only at night. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

**KOCHIA (Summer Cypress)**

Forms a cypress-like hedge of beautiful green and of perfect symmetry about 3 feet high. The entire plants turn to a deep red in the Autumn. Hardy Annual.

A-335—CHILDSII.—Pkt. 10c, oz. 40c.

**LANTANA**

Rapid-growing, tender perennial plants for pot culture in the Winter or garden decorations in the Summer.

P-336—HYBRIDA.—Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**LARKSPUR**

Hardy Annuals, with long floral spikes of double blossoms, and continuing in bloom from early Summer until Fall.

A-337—Hyacinth Flowered, or Rocket, choice mixed. Pkt. 10c, oz. \$1.00.

A-338—Tall Double Mixed. Pkt. 10c, oz. 75c.

**LATHYRUS (Everlasting Sweet Pea)**

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc.; continually in bloom; fine for cutting.

PC-339—Choice Mixed. Pkt. 10c, oz. 40c.

PC-340—White Pearl. Pkt. 10c, oz. 50c.

**LINUM (Flax)**

Very effective and showy bedding plants, of long duration; brilliant scarlet flowers.

A-345—GRANDIFLORUM RUBRUM.—Hardy Annual. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

P-346—PERENNE.—Blue. Hardy Perennial. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**LOBELIA**

Very desirable for pot culture, edgings, hanging baskets, etc.; blooming profusely from June to November.

A-347—CRYSTAL PALACE.—Very large foliage and deep blue flowers. Hardy Annual. Pkt. 10c,  $\frac{1}{4}$  oz. 60c.

**LUPINUS (Lupine)**

Free flowering, easily grown. Graceful long spikes set with large, pea-like blossoms. The plants prefer a semi-shaded spot.

A-350—HARTWEGI.—Hardy Annual, in choice mixture. Pkt. 10c, oz. 35c.

P-351—POLYPHYLLUS.—Perennial varieties. Mixed Colors. Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

**MARIGOLD**

The French and Italian Marigolds are the most popular and easiest grown of all the annuals. The tall varieties give charm to the border, while the dwarfs are valuable for bedding and make ideal edging plants.

A-355—GUINEA GOLD (African).—Brilliant Gold. One of the most outstanding. Height about 2 feet. Very free bloomer. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-356—LEMON QUILLED (African).—Clear lemon yellow. 2  $\frac{1}{2}$  feet. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

A-357—PRIDE OF THE GARDEN (African).—Double Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 35c.

A-358—TALL DOUBLE MIXED (French).—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-359—DWARF DOUBLE MIXED (French).—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-360—ROBERT BEIST (French).—Dark Maroon. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**MARVEL OF PERU (Four O'Clocks)**

Grows freely from seed. Blooms from the late afternoon on through the night, 2 feet.

A-361—Mixed Colors. Pkt. 10c, oz. 25c.

**MIGNONETTE**

A well-known favorite, very fragrant, and no garden is complete without it. Annual.

A-362—GOLDEN QUEEN.—Compact golden yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 35c.

A-363—GOLIATH.—Large trusses of double red flowers. Pkt. 10c,  $\frac{1}{4}$  oz. 30c.

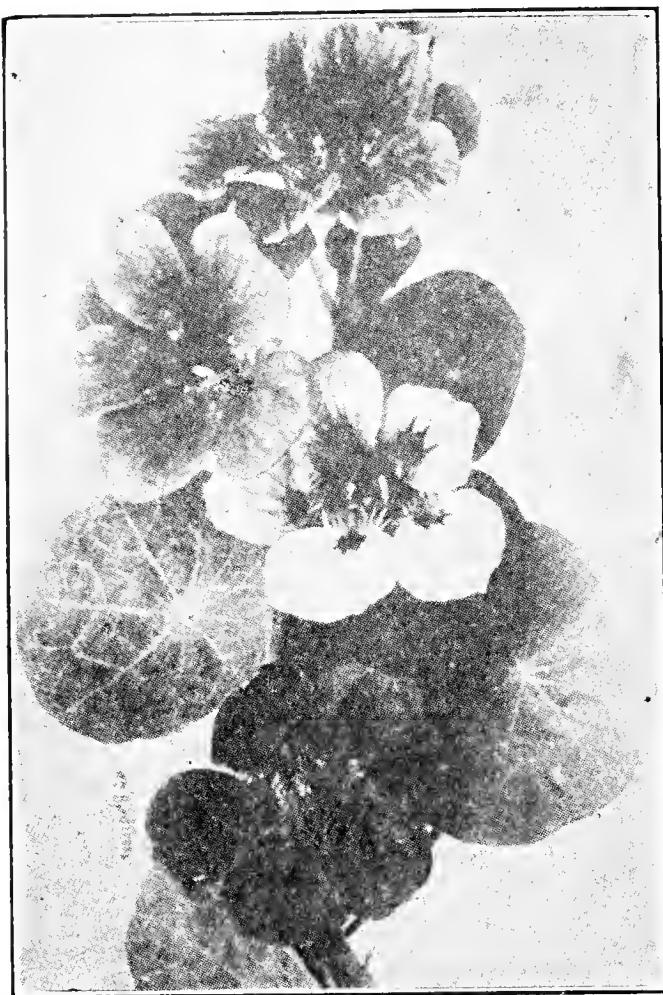
A-364—MACHET.—Large spikes, red tinted. Pkt. 10c,  $\frac{1}{4}$  oz. 20c.

**MOMORDICA**

Very curious climbing vine; ornamental foliage; fruit golden-yellow; warty; 10 feet.

AC-365—BALSAMINA (Balsam Apple).—Pkt. 10c,  $\frac{1}{2}$  oz. 40c.

AC-366—CHARANTIA (Balsam Pear).—Pkt. 10c,  $\frac{1}{2}$  oz. 40c.



Nasturtium

**NASTURTIUM**

One of the most popular of all annuals. Easily grown, as they will grow most anywhere except in the shade. Blooming profusely throughout the Summer, they may be used to cover unsightly railings and to trail over rough ground with fine effect. Excellent for cut flowers.

**DWARF VARIETIES**

- A-370—AURORA (Terra Cotta).—Pkt. 10c, oz. 20c.
- A-371—BEAUTY OF MALVERN.—Orange-Scarlet. Pkt. 10c, oz. 20c.
- A-372—CHAMALEON.—Cream - White, bright - scarlet tated and veined. Pkt. 10c, oz. 25c.
- A-373—EMPEROR OF INDIA.—Intense crimson-scarlet; extra dwarf, dark leaved. Pkt. 10c, oz. 30c.
- A-374—GOLDEN GLEAM.—Sweet scented, of very vigorous growth; bloom of a golden yellow, averaging 2 to 3 inches across. We are offering originator's own stock. Pkt. 10c, oz. 50c.
- A-375—DWARF OR TOM THUMB MIXTURE.—Pkt. 10c, oz. 20c.
- A-376—TALL VARIETIES.—Mixed. Pkt. 10c, oz. 20c.

**NICELLA (Love in a Mist)**

Handsome flower, requiring but little care. Flowers bright and showy, very curious seed pods.

- A-377—HISPANICA.—Blue. Pkt. 10c, oz. 45c.
- A-378—Double Mixed. Pkt. 10c, oz. 25c.

**PANSIES**

These beautiful hardy annuals should be in every flower lover's garden as they combine such a vast number of colors and shades. For early Spring blooming the seed should be sown in an open exposure in August or first part of September. Protect through the Winter with leaves or litter of some kind.

- A-380—TRIMARDEAU—Brilliant Mixture. Pkt. 25c,  $\frac{1}{8}$  oz. 50c.
- A-381—MAMMOTH EXHIBITION.—Mixture. Pkt. 25c,  $\frac{1}{8}$  oz. 75c.
- A-382—W.-D. CO.'s GIANT FLOWERING.—Mixed. Pkt. 25c,  $\frac{1}{8}$  oz. \$1.00.

**PETUNIA**

These are almost indispensable for garden decoration. They flower in a few weeks' time from seed and continue to grow, bud and bloom in luxuriance until frost. Half-hardy annuals.

- A-385—ROSY MORN.—Soft rose-pink with a white throat. Dwarf growth. Single bedding variety. Pkt. 15c,  $\frac{1}{4}$  oz. 50c.

A-386—ROSE OF HEAVEN.—Dwarf, single bedding, slightly deeper rose than Rosy Morn. Pkt. 15c,  $\frac{1}{4}$  oz. 50c.

- A-387—HOWARD'S STAR.—Dwarf, single bedding, purple white striped. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

A-388—CHOICE SINGLE.—Mixed Colors. Pkt. 10c,  $\frac{1}{4}$  oz. 30c.

- A-389—DOUBLE FRINGED GIANT PETUNIAS.—In a splendid mixture. Pkt. 50c.

**PHLOX DRUMMONDI**

For beds and massing nothing can surpass these beautiful annuals. They produce immense trusses of large brilliant flowers of numberless hues throughout the Summer.

- A-390—Dark Purple. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

- A-391—Rose with dark eye. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

- A-392—Choice Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 40c.

P-393—DECUSATTA.—New hybrids in choice mixture, containing the new brilliant colors. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**PHYSALIS (Chinese Lantern)**

An ornamental plant, forming dense bushes about 2 feet high producing orange-scarlet lantern-like fruits, which can be cut and dried for Winter bouquets. Hardy Perennials.

- P-394—FRANCHETTI.—Large showy orange-like fruit. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**POPPIES**

The flaming brilliancy of color make these real garden assets. Sow the annual sorts thinly in early Spring and do not transplant; start the perennial varieties indoors in February and transplant when safe.

**HARDY ANNUALS**

- A-395—SHIRLEY MIXED.—Silk or ghost poppy. Pkt. 10c,  $\frac{1}{4}$  oz. 20c.

- A-396—PAEONY FLOWERED.—Double Mixed, all colors. Pkt. 10c,  $\frac{1}{4}$  oz. 20c.

**HARDY PERENNIALS**

- P-397—ICELAND.—Yellow. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

- P-398—ORIENTALE.—Large deep crimson flowers. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

**PORTULACA (Sun Plant)**

Brilliant garden annual, 6 inches high, luxuriating in warm dry sunny situations and blooming profusely from early Summer to Autumn. Colors range through innumerable shades of red, yellow, pink, striped, white, etc.

- A-399—Extra double mixed large flowering. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

- A-400—Choice single mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**PUERARIA (Kudzu Vine)**

A very strong-growing climber. The leaves overlap each other so as to form a dense screen. Hardy Perennial.

- PC-401—THUNBERGIANA.—Pkt. 10c, oz. 50c.

**PYRETHRUM**

Few plants are more popular for borders. The finely cut leaves of the foliage and the bright color of the blooms make it especially attractive.

- P-402—AUREUM (Golden Feather).—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**RICINUS (Castor Oil Bean)**

Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing subtropical effect.

- A-403—ZANZIBARIENSIS.—Large leaves, varying in color from light green to purplish red; 12 feet. Pkt. 10c, oz. 25c.

- A-404—CAMBODGENSIS.—Black foliage; 5 feet. Pkt. 10c, oz. 25c.

- A-405—Mixed Varieties. Pkt. 10c, oz. 25c.

**SALVIA (Scarlet Sage)**

One of the most popular of the ornamental plants, attaining a height of from 2 to 3 feet; producing tall spikes of gay flowers. Fine for bedding or hedging.

- A-406—SPLENDENS.—Compacta, Bonfire. 2 feet. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**SCABIOSA (Mourning Bride)**

Perfectly double flowers; useful for cutting; gracefully borne upon long slender stems; range of color white to rich pink, crimson to deep red, lilac and black. Annual.

A-408—BLACK PRINCE.—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.  
 A-409—FIERY SCARLET.—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.  
 A-410—SHASTA WHITE.—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.  
 A-411—LILAC.—Pkt. 10c,  $\frac{1}{4}$  oz. 25c.  
 A-412—CHOICE MIXED.—Pkt. 10c,  $\frac{1}{4}$  oz. 20c.  
 P-413—SCA'ICA.—Perennial; extra fine mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**STOCKS (Gilliflower)**

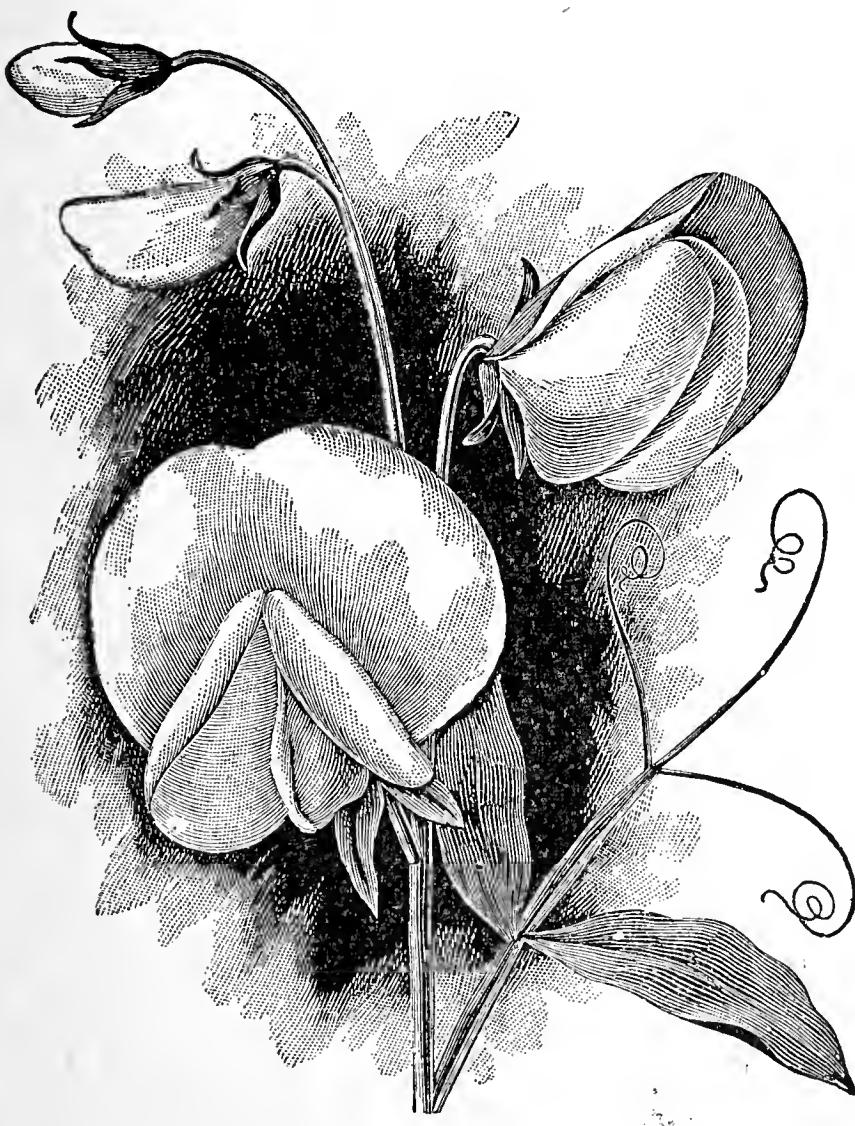
All the varieties are desirable as pot plants as well as in the open garden. They are greatly prized for cut flowers on account of their fragrance and colors. Hardy Annuals.

A-415—Rose. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.  
 A-416—Canary-Yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.  
 A-417—White. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.  
 A-418—Dark Crimson. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.  
 A-419—Dwarf Double Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**SWEET WILLIAM (Dianthus Barbatus)**

There is perhaps no flower more favorably known than the Sweet William. No garden is complete without it. They are easily grown from seed and produce a wonderful array of colors. Perfectly hardy.

P-425—Single Albus, white. Pkt. 10c, oz. 75c.  
 P-426—Single Newport, pink. Pkt. 10c, oz. 75c.  
 P-427—Single Pink Beauty. Pkt. 10c, oz. 75c.  
 P-428—Single Diadem, crimson with large white eye. Pkt. 10c, oz. 75c.  
 P-429—Single Mixed, all colors. Pkt. 10c, oz. 50c.  
 P-430—Double Mixed. Pkt. 10c, oz. 75c.  
 A-431—Single Mixed, Annuals. Pkt. 10c, oz. 50c.



Sweet Peas

**SWEET PEAS**

The soil for Sweet Peas should be rich and deep. A good rich loam, with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms. Seed should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April in the latitude of Baltimore. It is best to dig a trench about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above the ground thin out to 2 to 4 inches apart. They should be staked up with brush or wire about 4 feet high. During dry weather water frequently.

A-420—LATE SPENCER MIXTURE.—This mixture contains the finest named sorts, for brilliancy and richness, it cannot be excelled. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

A-421—EARLY SPENCER MIXTURE.—For those desiring to force under glass or early Summer flowering, as they come into bloom from 2 to 3 weeks earlier than the Late Spencer. This is also a blend of the most desirable colors. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

A-422—W.-D. CO.'S SPECIAL MIXTURE OF GRANDIFLORA VARIETIES.—An exceptionally good mixture. Pkt. 10c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

**THUNBERGIA (Black Eyed Susan)**

Beautiful rapid growing annual climbers, preferring a warm, sunny situation; used extensively in hanging-baskets, vases, low fences, etc., very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. Colors.

P-432—ELATA.—Mixed. Pkt. 10c, oz. 40c.

**TRITOMA (Red Hot Poker)**

A free blooming hardy perennial; large spikes of flowers. 2 feet.

P-433—NEW EARLY HYBRIDS.—Mixed. Pkt. 10c.

**VERBENA**

Splendid for beds or massing; the trusses and individual flowers of the largest size, of brilliant colors, free blooming and of vigorous habit, for best and quickest results seed should be sown early in the house or hotbed and transplanted to flowering quarters in May. One of the most popular garden annuals.

A-434—Mammoth, Dark Blue. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-435—Mammoth, Carmine. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-436—Mammoth, Scarlet. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-437—Mammoth, White. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-438—Mammoth, Salmon-Pink. Pkt. 10c,  $\frac{1}{8}$  oz. 25c.

A-439—Mammoth, Mixed, all colors. Pkt. 10c,  $\frac{1}{8}$  oz. 20c.

**VERONICA (Speedwell)**

Of easy culture and free flowering, valued as a cut flower or for the garden. Hardy Perennial.

P-440—Mixed. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

**VINCA (Madagascar Periwinkle)**

Ornamental free-blooming plants and one of the most satisfactory flowering plants we have; fine for cut flowers; every bud opening when placed in water.

A-443—ROSEA.—Rose, darkeye. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

A-444—ALBA.—White, crimson eye. Pkt. 10c,  $\frac{1}{4}$  oz. 25c.

**WALLFLOWER**

Deliciously fragrant and combine many shades of color—the orange, purple and chocolate predominating. Half-hardy perennials. 1½ feet.

B-445—Choice Mixed Colors. Pkt. 10c,  $\frac{1}{4}$  oz. 75c.

**ZINNIAS**

The Zinnia is one of the most brilliant, showy and satisfactory annuals, and has long been a general favorite.

**DAHLIA-FLOWERED**

A-446—DREAM.—Lavender turning to purple. Pkt. 10c, oz. \$1.00.

A-447—CANARY BIRD.—Deep yellow. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-448—SCARLET FLAME.—Scarlet. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-449—METEOR.—Dark Red. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-450—ORIOLE.—Orange and Gold. Pkt. 10c,  $\frac{1}{4}$  oz. 50c.

A-451—EXTRA CHOICE DOUBLE MIXED.—Pkt. 10c, oz. \$1.00.

A-452—GIANTS OF CALIFORNIA.—Double Mixed. Pkt. 10c, oz. \$1.00.

A-453—Double Small Flowered Mixed for cutting. Pkt. 10c, oz. 75c.

## Bulbs and Plants for Spring Planting

### CANNAS

For a brilliant show all Summer there is no plant excelling the Canna. It even surpasses the Geranium in its gorgeous display of brilliant colors, blooming continuously from the time of planting until cut down by frost. As Cannas are good pot plants either for Summer or Winter flowering, they may be lifted and potted in the Fall before the approach of frost. Grown in this way, they are ready to continue their good work without disturbing the plants.

#### AUSTRIA

Enormous flowers, beautiful canary yellow with a silvery hue inside slightly dotted with red. Both in foliage and flower this Canna surpasses all others.

#### YELLOW KING HUMBERT

A sport from the bronze leaved red flowering King Humbert. Flowers are yellow dotted orange-scarlet. The occasional reversion of a stalk of foliage and flowers to the typical King Humbert makes a bed of this variety very interesting. 4½ feet.

#### FLORENCE VAUGHAN

This is the best yellow Canna spotted with red dots. The yellow is intense, and the dots, not too pronounced, add to the beauty of the flowers without detracting from the golden mass. 4 feet.

#### KING HUMBERT

In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses; a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery bronze. Height 5 feet.

#### THE PRESIDENT

A great Canna. Immense bright red flowers in fine clusters; unquestionably the most sensational introduction in recent years. 4 feet.

The above mentioned varieties are supplied in started plants only. Ready in April and May. Price 15c each, 2 for 25c, dozen \$1.50.

DORMANT ROOTS. 75c per dozen.

## CALADIUM ESCULENTUM (Elephant's Ear)



Caladium Esculentum

Mammoth Bulbs.—10 to 12 inches in circumference. 25c each, \$2.50 dozen.

First Size Bulbs.—8 to 11 inches in circumference. 20c each, \$2.00 dozen.

Second Size Bulbs.—7 to 9 inches in circumference. 15c each, \$1.75 dozen.

Third Size Bulbs.—5 to 7 inches in circumference. 10c each, \$1.00 dozen.

### FANCY LEAVED CALADIUMS

The choicest Brazilian introductions as well as a number of fine new varieties. 25c each, \$2.50 per dozen.

### DOUBLE PEARL TUBEROSES

One of the most fragrant and beautiful of the Summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed, and for a succession they can be planted at intervals as late as July. For flowering in the open border plant about the middle of May, or as soon as the ground becomes warm. Each 5c, dozen 50c.

### MADEIRA or MEXICAN VINE

One of the most popular climbers. Makes a thick shade, grows rapidly. Strong roots. 10c each, 60c per dozen.

### GLADIOLUS

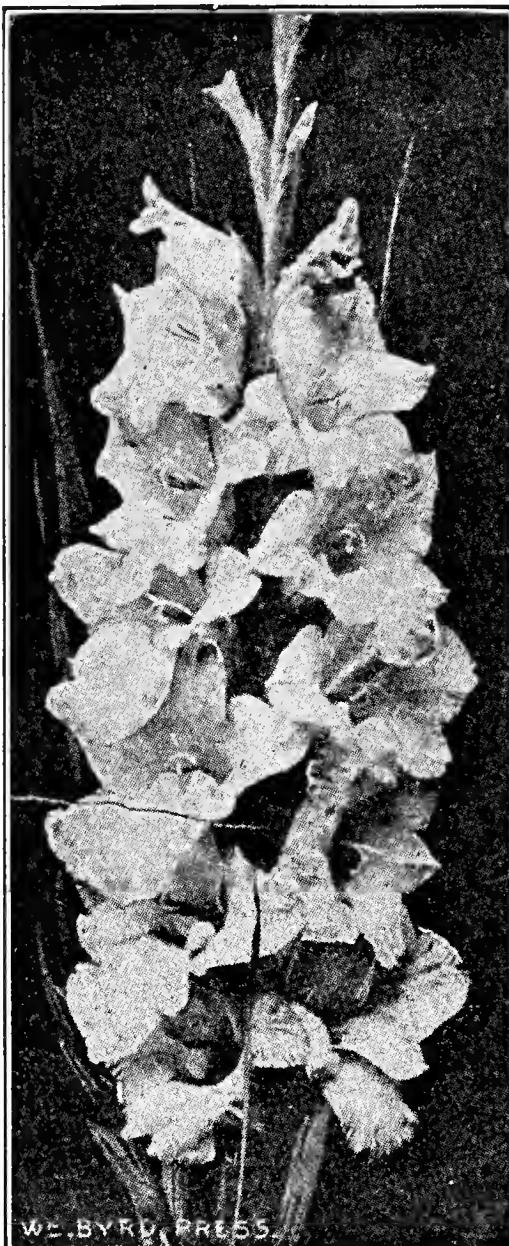
AMERICA—Conceded to be one of the finest varieties for cutting or bedding ever sent out, color a beautiful soft flesh-pink; orchid-like in its coloring and texture. 7c each, 75c dozen, \$5.00 per 100.

ANNA EVERIUS—A rich velvety purple, a royal color. "The most beautiful Purple Gladiolus." 10c each, 80c dozen, \$6.00 per 100.

EVELYN KIRTLAND—Rose pink, soft shell pink center and bright scarlet blotches on lower petals. 8c each, 75c dozen, \$5.50 per 100.

HALLEY—Delicate salmon-pink, with a slight roseate tinge, the lower petals bear a creamy blotch with a stripe of bright red through the center. 7c each, 75c dozen, \$5.00 per 100.

MRS. FRANCIS KING—Light scarlet of pleasing shade; small blotches of red; large wide open flowers; tall spike with many buds. 7c each, 75c dozen, \$5.00 per 100.



Gladiolus

MRS. FRANK PENDLETON—Soft rose pink. One of the finest varieties yet introduced. The flowers are of largest size, borne on strong straight spikes. Exquisite in every way. 7c each, 75c dozen, \$5.00 per 100.

PANAMA—A lovely apple blossom shade, true La France pink; large flower on a tall spike; perfect in every detail. 7c each, 75c dozen, \$5.00 per 100.

PEACE—Immense pure white flowers, with a touch of carmine in the lower petals. These are borne on tall, graceful spikes; a beautiful and exceedingly refined variety. 7c each, 75c dozen, \$5.00 per 100.

SCHWABEN—Magnificent flowers of delicate pale yellow with a dark blotch in center. One of the finest and largest of all yellows. 10c each, 80c dozen, \$6.00 per 100.

## DAHLIAS

We Have Carefully Revised Our List of Dahlias to Include only the Most Showy and Latest Introductions. You Will Find These Moderately Priced and a Very Good Selection. We Supply These in Dormant Roots Only.

**CULTURE.**—They do best in rich soil and plenty of sun, but will grow in any good garden soil, and in almost any location excepting one very shady. The bulbs or tubers should be planted in April, about 4 inches deep and 30 inches apart. An inch square stake, 3 or 4 feet long should be stuck a foot in the ground when the roots are planted, and the plants tied to it when about 2 feet high.



Hybrid Cactus Dahlia

### AMERICAN LEGION (Cactus)

Large clear yellow, borne on long stiff stems. Each 50c, doz. \$5.00.

### BALTIMORE (Decorative)

Lemon yellow. Each 25c, doz. \$2.25.

### FORT MONMOUTH (Decorative)

Rich crimson maroon, tips of a bluish violet. Each 35c, doz. \$4.00.

### EDWARD PARRISH (Decorative)

Handsome lavender mauve, borne on stiff stems. Each 50c, doz. \$5.00.

### JERSEY BEAUTY (Decorative)

Ideal pink, long stems, free and early bloomer. Each 20c, doz. \$2.00.

### KATHLEEN NORRIS (Decorative)

True rose pink deepening to mallow pink. Each 75c.

### MARMION (Decorative)

Golden yellow shading to tinges of orange. Large. Each 75c.

### MILLIONAIRE (Decorative)

Delicate lavender. Each 25c, doz. \$2.00.

### MRS. IDE VER WARNER (Decorative)

Clear, bright, lilac rose. Each 20c, doz. \$2.00.

### PATRIC O'MARA

Unusual soft and pleasing shade of orange-buff, slightly tinged with nevron rose. Each 25c, doz. \$2.25.

### PRIDE OF CALIFORNIA (Decorative)

Deep red, large well formed flowers. Each 25c, doz. \$2.25.

### ROTARIAN (Decorative)

Violet maroon, petals large, curled and twisted. Each 35c, doz. \$4.00.

### MIXED DAHLIAS

Splendid assortment. Each 20c, doz. \$2.00.

## Hardy Rose Bushes

These are strong, hardy, healthy plants, two year; field grown.

Price 60c each—10 for \$5.00

If wanted by Parcel Post add 10c Each.

### HYBRID TEA or MONTHLY BLOOMERS

**RADIANCE**, Pink.—One of the best of the Tea Roses. Beautiful rose-pink.

**RADIANCE**, Red.—Equally as sturdy as the above. Color a bright red.

**FRANCIS SCOTT KEY**.—Heavy double rose of great substance. Beautiful red.

**ETOILE DE HOLLAND**.—Flower bright red, of medium size, deliciously fragrant.

**KAISERIN AUGUSTA VICTORIA**.—Pure white, with shadings of primrose yellow.

**KILLARNEY**.—The finest pink forcing rose in existence.

**COLUMBIA**.—Very large, true pink.

**REV. F. PAGE ROBERTS**.—An excellent exhibition rose, of orange-yellow color, becoming lighter at the edge of petals.

**TALISMAN**.—Long bud, with a combination of shadings of gold, apricot, yellow, deep pink and old rose.

**ETOILE DE FRANCE**.—A lovely shade of clear, red-crimson velvet.

**OPHELIA**.—Salmon-flesh, shaded with rose, large and of perfect shape.

**MRS. E. P. THOM**.—Rich lemon-yellow. Perfectly shaped buds.

**SOUVENIR DE CLAUDIS PERNET**.—Beautiful yellow; an old favorite.

**MME. BUTTERFLY**.—Fragrant and shapely blooms of a delicate pink, based with gold.

**GRUSS AN TEPLITZ**.—Produces an abundance of crimson-maroon roses.

### CLIMBING ROSES—60c each—10 for \$5.00

**AMERICAN PILLAR**.—Brilliant crimson-pink flowers with white centers.

**CLIMBING AMERICAN BEAUTY**.—Very popular, produces brilliant carmine flowers.

**PAUL'S SCARLET**.—Fiery scarlet flowers of excellent shape.

**ERNST GRANDPIERRE**.—Fragrant salmon-yellow buds turns to large creamy blooms.

**WHITE DOROTHY PERKINS**.—A pure white form of the popular Dorothy.

## INSECT DESTROYERS



### ARSENATE OF LEAD (Powder)

Kills Coddling Moth, Worms, Caterpillars, Potato Bugs and all chewing insects. Dilute 1 pound to 1½ pounds to 50 gallons water. 1 lb. pkg. 25c, 4 lb. pkg. 20c per lb., 48 lb. case 15c per lb.

### ARSENATE OF ZINC (Powder)

Kills quicker than Arsenate of Lead. Can also be used at sufficient strength to insure results without injury to the plants. Dilute 2 pounds to 50 gallons water. 1 lb. pkg. 30c, 4 lb. pkg. per lb. 23c, 48 lb. pkg. 12-4 lb. pkgs. 18c per lb.

### ANTROL—Kills Ants in the Nest!

This New Ready-Filled Antrol Set is ready for use. Safe around pets. Simply place the glass feeders along ant trails and the ants carry the Antrol Syrup to their nests for food, quickly killing the queen and the entire ant family. The only way to get lasting relief. Four Filled Feeders in Handy Package 40c.

### BLACK LEAF 40

For spraying against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrip, etc. 1 oz. 35c, 5 oz. \$1.00, 1 lb. \$2.25, 2 lbs. \$3.25, 5 lbs. \$5.85, 10 lbs. \$9.85.



### BORDEAUX MIXTURE (Powder)

For blight on Potato, Tomato, Celery, Trees, etc. Also for other fungus diseases. 1 lb. pkg. 25c, 4 lb. pkg. 20c per lb., 48 lb. case 15c per lb.



### ARSENATE OF CALCIUM (Powder)

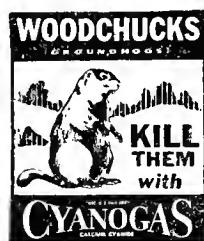
For use on hardy plants, such as Cotton, Tobacco, Potatoes, Tomatoes and Grapes. Contains a higher percentage of Arsenic Oxide than is contained in Arsenate of Lead. 1 lb. pkg. 20c, 4 lb. pkg. 12c per lb., 48 lb. case 11c per lb.

### CERESAN (DuBay)

For treating the seed of small grains, such as barley, oats, wheat, or rye against destructive grain diseases. 2 to 3 ounces are required for one bushel of seed. Per lb. 75c, 5 lbs. \$3.00, 25 lbs. \$12.50, 100 lbs. \$49.00.

### CARBOLA

Disinfecting Germ-Killing White Paint. Recommended for use instead of whitewash and disinfectants in Stables, Cellars, Poultry Houses, Hog Pens, Creameries, Dog Kennels, etc. 5 lb. pkg. 75c, 10 lb. pkg. \$1.25, 25 lb. pkg. \$2.85, 50 lb. pkg. \$5.00, 200 lb. \$18.00.



WHEN exposed to the air, Cyanogas A-Dust gives off a gas that kills these destructive pests almost instantly. One whiff is enough for any woodchuck. A heaping tablespoonful in each opening is sufficient. All openings should then be closed.

### CYANOGAS (Calcium Cyanide) (G. Fumigant)

A valuable insecticide for greenhouse fumigation, for destroying aphis, white fly, soft scale, thrips, etc. It is scattered along the walks, and the house closed for the night. Per lb. 75c, 5 lbs. \$3.00, 25 lbs. \$10.00, 100 lbs. \$30.00. Descriptive circular free.

CYANOGAS (Calcium Cyanide).—A-Dust. For killing rats, moles, woodchucks and other rodents. Per ½ lb. 45c, per lb. 75c, 5 lbs. \$3.00.

CYANOGAS DUSTERS.—For applying Cyanogas in the runs of moles, rats, etc. Hand Dusters ..... \$1.40 Foot Pump ..... \$4.75

### No. 40 INSECTICIDAL AND FUNGICIDAL DUST



A combined fungicide and insecticide, extensively used for control of Mexican Bean Beetle, and also prevents blight. 5 lb. pkg. 75c, 100 lb. bag \$7.00.

### COPPER SULPHATE (Blue Stone)

An ingredient used in the making of Bordeaux Mixture. Also used alone as a spray. 1 lb. 12c, 5 lbs. 50c, 10 lbs. 90c, 50 lbs. \$4.00, 100 lbs. \$6.00.

### DERRISOL (Non-Poisonous)

A highly concentrated, non-poisonous, brownish liquid, containing 5 per cent Derris Extract combined with other chemicals in such a way as to make an efficient contact insecticide. Full directions on each package. 1 oz. bottle 35c, ½ lb. bottle \$1.20, 1 lb. can \$2.00, 2 lb. can \$3.00, 10 lb. can \$12.00.

### DRITOMIC SULPHUR

A remedy for Scab and Brown Rot on Peaches. 4 lb. bags 18c per lb., 48 lb. bags 12c per lb., 96 lb. bags, 11c per lb.

## INSECT DESTROYERS — Continued

### JAPTOX

Kills and repels Jap Beetles. It is a fine powder containing Arsenic, which, when sprayed on foliage, establishes a very pronounced silvery coating which sticks longer than any other spray material known. Very easy to apply. No inconvenient paste to work with. Not recommended for peach trees.

1-lb. canisters . . . . .	\$ .50	25-lb. drums . . . . .	\$ 6.50
2-lb. canisters . . . . .	.85	100-lb. drums . . . . .	16.00
8-lb. canisters . . . . .	3.00		

### KAYSO

Used as a spreader with spray materials; gives the foliage an unbroken covering and keeps the spray from washing off. 2 lb. pkg. 40c, 100 lbs. \$18.00.

### LIME SULPHUR SOLUTION (Liquid)

For Scale on Trees and Shrubs, and such fungus diseases as can be treated in winter or early spring. Also for Leaf Curl on Peaches.

1 gal. can . . . . .	\$ .75
5 gal. can . . . . .	2.75
10 gal. can . . . . .	4.50
30 gal. drums, per gal. . . . .	.20
50 gal. drums, per gal. . . . .	.18

Drums Not Returnable

### LIME SULPHUR (Powder)

Used extensively for Scale and Leaf Curl of Peaches. 1 lb. 25c, 5 lb. pkg. \$1.00, 10 lb. pkg. \$1.80, 25 lb. pkg. \$3.50, 50 lb. drum \$6.50, 100 lb. drum \$12.00.

### MAGNESIUM ARSENATE

For the control of the Mexican Bean Beetle. Use dry or as a liquid spray, 1 pound to 50 gallons. 2 lb. pkg. 60c, 100 lb. drums \$22.00.

### MAGNESIUM ARSENATE DUST

(Prepared ready for use)

4 lb. pkg. 60c.	100 lb. drum \$12.00
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### 3% NICOTINE DUST

For Aphids, Red Bug, Pear Psylla, etc. The best contact dust for sucking insects. 1 lb. 40c, 5 lbs. \$1.25.

### NICO FUME PRESSURE FUMIGATOR

It is much more effective than the old loose-piles method.

Nico-Fume Powder is now packed in hermetically-sealed cans. It is packed in both  $\frac{1}{2}$  lb. and 1 lb. sizes. Two holes are scored, ready to be punched out, on opposite sides near the top of the can. A special lighter (small sparkler) is attached to the can. To operate, punch out the two holes—light the sparkler and thrust it into the can through one of the holes. A pound can will fumigate between 25,000 and 30,000 cubic feet of greenhouse space.

1—1 lb. Pressure Fumigator . . . . .	\$ .75
6—1 lb. Pressure Fumigators . . . . .	3.75
1— $\frac{1}{2}$ lb. Pressure Fumigator . . . . .	.45
6— $\frac{1}{2}$ lb. Pressure Fumigators . . . . .	2.40

### NICO FUME (Liquid)

For use as a spray or vapor, for controlling Green Fly, Aphid, etc., in greenhouses and outdoors. 1 lb. \$2.25, 4 lbs. \$5.75, 8 lbs. \$10.00.

### OLEATE COATED ARSENATE OF LEAD (Paste)

This is the paste material on which Government scientists depended for many years in their fight against Japanese Beetles. Not recommended for peach trees.

1-lb. glass jars . . . . .	\$ .45	25-lb. drums . . . . .	\$ 6.00
2 $\frac{1}{2}$ -lb. glass jars . . . . .	.90	50-lb. drums . . . . .	9.50
10-lb. iron can . . . . .	2.70		

### PARA-DICHLORO BENZINE. P. T. B.

This is a white crystalline product that gives off a gas that is especially deadly to the Peach Tree Borer and other insects. Apply to the soil around the base of the tree. Full directions on each package. 1 lb. 45c, 5 lbs. \$1.75, 25 lb. drum \$6.50, 100 lb. drum 22c per lb.

### PARIS GREEN

A poisonous powder for Potato Bugs, Worms, Caterpillars, Slugs, etc. It may be used in liquid form 1 pound in 50 gallons of water, or with land plaster at the rate of 1 pound of Paris Green to 100 pounds of plaster.  $\frac{1}{4}$  lb. 15c,  $\frac{1}{2}$  lb. 30c, 1 lb. 45c, 2 lbs. 80c, 5 lbs. \$1.75, 14 lb. kit 30c per lb.

### WITH NICOTINE



Prevents, cures and effectually controls mildew, black spot, leaf-eating insects and aphid.

### POMO-GREEN (Dust)

Splendid for dusting or spraying Roses and other Flowering Plants, against insects and fungus diseases. 1 lb. 50c, 5 lbs. \$1.75.

With Nicotine—1 lb. 75c, 5 lbs. \$3.00.



### PYROTE

A non-poisonous pyrethrum-rotenone spray. We find this to be a very effective plant spray for killing both sucking and chewing insects. It is fatal to Cabbage Worms, Aphis, Mexican Bean Beetles, Red Spider, Aster Beetles, Chrysanthemum Midge, etc., but it is harmless to humans and animals. No soap or spreader needed. Simply mix with water and spray. 1 oz. bot. 35c, 6 oz. \$1.00, pt. can \$2.00, qt. \$3.50, gal. \$11.00, 5 gal. \$47.50.

### PYROX

A combined insecticide and fungicide for the control of leaf eating insects, blights and fungus troubles. This is in paste form and need only to be mixed with water. 1 lb. 50c, 5 lbs. \$1.75, 10 lbs. \$3.00, 25 lbs. \$6.25, 50 lbs. \$10.75, 100 lbs. \$15.50.

### RED ARROW SPRAY

The powerful Non-Poisonous Spray, will not stain, burn, or discolor the tenderest leaf or petal. Harmless to man, pets or birds, but deadly to insects. Effective against Mexican Bean Beetle, Asparagus Beetle, Japanese Beetle, Cucumber Beetle, Cabbage Worms and many other insects.

1 oz. 35c makes 8 gallons
4 oz. \$1.00 makes 30 gallons
Pint \$2.50 makes 140 gallons
Quart \$4.00 makes 280 gallons

### SEMESAN (DuBay)

It destroys the destructive diseases on the seed and protects them from the rots in the soil, which results in increased stands of more vigorous, healthy plants. One ounce will treat from 15 to 30 pounds of seed. 2 oz. 50c, 1 lb. \$2.50, 5 lbs. \$11.75.

## INSECT DESTROYERS — Continued

### SEMESAN BEL (DuBay)

For Seed Potatoes. The quick dip treatment. It protects seed pieces against rotting and scab, thereby insuring maximum stands and greater yields. Mix one pound with 7½ gallons of water. This will treat from 60 to 80 bushels of seed potatoes. 4 oz. 50c, 1 lb. \$1.65, 5 lbs. \$7.00, 25 lbs. \$31.25.

### SEMESAN JR.

For Seed Sweet and Field Corn. Increases crop yields by preventing rot and fungus diseases. 2 ounces will dust 1 bushel of corn. 4 ozs. 35c, 1 lb. \$1.00, 5 lbs. \$4.75.

### SLUG SHOT

A non-poisonous powder. It requires no further mixing or preparation; easily applied; not injurious or dangerous to animals; the person applying it, or fruits or vegetables treated. For Potato Bugs, Worms, Caterpillars, etc. 1 lb. pkg. 25c, 5 lb. pkg. \$1.00.

### SULPHUR OF COPPER

For destroying fungus diseases of all kinds; also used in making Bordeaux Mixture. 1 lb. 15c, 5 lbs. 50c, 25 lbs. \$2.00.

### SULPHUR DUST or STRAWBERRY DUST 85-15

Contains 15 per cent Dry Arsenate of Lead and 85 per cent Flour Sulphur. A very effective dusting material for Strawberries, Cantaloupes and other Melons. 100 lb. bag \$6.50.

### SULPHUR (Powder)

Used principally in greenhouses and also to prevent San Jose Scale. 1 lb. 10c, 5 lbs. 40c, 25 lbs. \$2.00.



### SULROTE

This non-poisonous dust combines rotenone with dusting sulphur, making a very effective insecticide and fungicide for the grower as well as the small garden owner. It is a splendid dust for use on cucumbers, cauliflower, etc., and especially for controlling the Mexican Bean Beetle; also for repelling Japanese Beetles. It is an excellent dust for roses, as it will control Rose Chafers and afford protection against Black Spot and Mildew; also controls Chinch Bugs in the lawn. 1 lb. 40c, 5 lbs. \$1.25, 25 lbs. or more at 18c per lb. Write for special prices on large quantities.

### TOBACCO DUST

A splendid insecticide and fertilizer as well. To prevent Aphids, Fleas, Beetles, etc. Apply with duster. 5 lbs. 25c, 100 lbs. \$4.00.

### VOLCK

A spray for the garden, nursery and greenhouse; effectively controls Red Spider, Mites, White Flies, Scales, Mealy Bugs, Caterpillars, Aphis, Thrip, etc.; not only kills the insects but also acts as a repellent. ½ pt. 35c, 1 pt. 50c, 1 qt. 75c, 1 gal. \$2.00, 5 gals. \$6.25.

*Oldest and most Widely Used Inoculator in America*

**NITRAGIN**

**NOW SELLS FOR only 55¢ per 1 bu. size**

**Alfalfa and Clover**

*Established in 1898—The Original Legume Inoculator*

**Expiration Date — High Bacteria Count — Approved — Tested and Guaranteed**

**DRASTIC PRICE REDUCTIONS**  
*Lowest in NITRAGIN History*

## NITRAGIN INOCULATION PRICES

• When Ordering, **ALWAYS** State Name of Seed •

**Culture Group "A"**—ALFALFA and SWEET CLOVERS (including Hubam) and Bur Clover.

**Culture Group "B"**—CLOVERS, MEDIUM RED, Mammoth Red, Alsike, Crimson and White Clover.

½ bu. size 35c ea.; 1 bu. size 55c ea.; 2½ bu. size \$1.20 ea.

**Culture Group "L"**—All varieties of Lespedeza—Unhulled or Hulled. Unhulled requires only 1 bu. size. Hulled requires 2 bu. size. 1 bu. size 35c ea.; 2 bu. size 55c ea.; 5 bu. size \$1.20 ea.

**Culture Group "S"**—Soy Beans. All varieties.

**Culture Group "E"**—PEANUTS, COW PEAS, LIMA BEANS, VELVET BEANS, Kudzu, Crotalaria and Beggar Weed.

1 bu. size 35c ea.; 2 bu. size 55c ea.; 5 bu. size \$1.20 ea.; 10 bu. size \$1.75 ea.; 25 bu. size \$3.75 ea.

**Culture Group "C"**—VETCHES (Hairy, Spring, Wild) AUSTRIAN PEAS, Canadian Field and Garden Peas, Broad Beans, Sweet Peas and Lentils.

**Culture Group "D"**—Field and Garden BEANS (Navy, Kidney and Scarlet Runner Beans). ½ bu. size 30c ea.; 1 bu. size 45c ea.; 1½ bu. size (100 lb. size) 65c; 5 bu. size \$1.85 ea.; 12½ bu. size \$4.25 ea.

### NEW GARDEN SIZE

For Garden Peas, Beans, Sweet Peas, Lima Beans, and Lupines. Inoculates any amount up to 4 lbs. seed. Price each.....

**10¢**

*Remember . . .*

**Legumes NOT Inoculated are "SOIL ROBBERS"**  
**Legumes WELL Inoculated are "SOIL BUILDERS"**



This improved flower and fruit shear cuts and holds fruit and flowers after cutting. Use one hand in cutting and the shear holds the fruit or flower. It's a time saver. Particularly advantageous in cutting roses and avoiding thorns. An indispensable garden tool. Made of high grade steel. Strong and durable. Flower cutter and fruit picker all in one.

## Price:

Unpolished blade .....	25c
Polished blade .....	50c

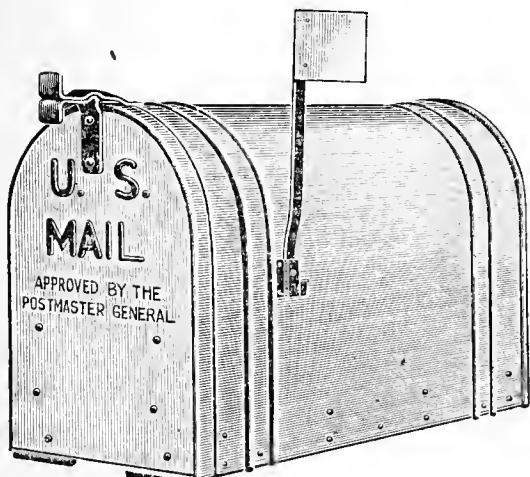
By Parcel Post 8c Additional

GALVANIZED  
WATER POTS

4 quart.....	\$ .50
6 quart.....	.60
8 quart.....	.70
10 quart.....	.85
12 quart.....	1.00
16 quart.....	1.10

If wanted by Parcel Post add 25c each to above prices.

## RURAL MAIL BOX



Top and Sides—Made of No. 20 gauge galvanized steel, with beading reinforcements, front edge curled and wired.

Door—Made of No. 18 gauge galvanized steel, the bottom edge doubled back upon itself for a distance of three inches. Hinged to the bottom with two heavy 6 inch steel galvanized "T" strap hinges. Swings downward freely and operates with ease. Fits snugly over the curled edge of opening and is weather proof.

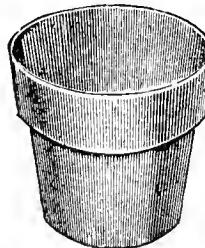
Bottom—Made of No. 20 gauge galvanized steel and is framed into a reinforced construction consisting on sides and bottom of 1" x 1/16" strap steel and on the front section of 1 inch angle iron.

Inside Measurements—23 1/8 inches long, 13 1/4 inches high, 11 inches wide.

Weight 30 pounds packed.

Price.....\$2.50

## EARTHENWARE FLOWER POTS



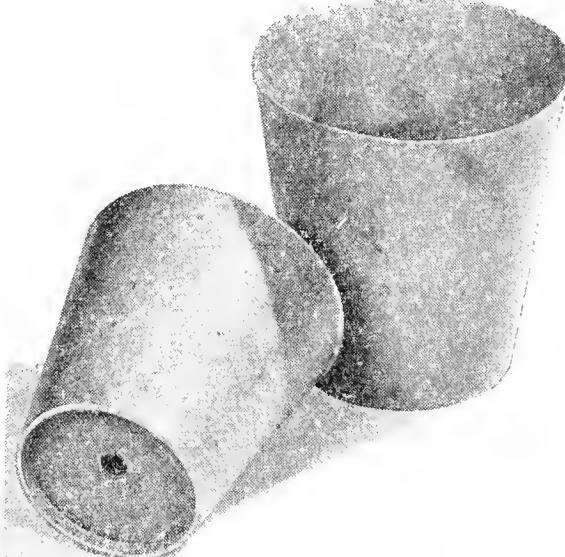
Width inside	Each	Doz.	100
2 inch .....	.03	.20	\$1.35
2 1/4 inch .....	.03	.22	1.50
2 1/2 inch .....	.04	.25	1.75
3 inch .....	.05	.30	2.00
3 1/4 inch .....	.05	.40	2.75
4 inch .....	.05	.45	3.25
4 1/2 inch .....	.07	.65	4.50
5 inch .....	.08	.85	5.50
5 1/2 inch .....	.09	1.00	6.50
6 inch .....	.11	1.25	8.00
6 1/2 inch .....	.15	1.50	10.50
7 inch .....	.18	2.00	13.50
8 inch .....	.28	3.00	19.00
9 inch .....	.40	4.00	28.00
10 inch .....	.55	5.50	40.00
11 inch .....	1.00	9.00	
12 inch .....	1.15	12.00	
14 inch .....	1.50	15.00	

## EARTHENWARE SAUCERS

Width inside	Each	Doz.	100
4 inch .....	.04	.40	\$2.75
5 inch .....	.05	.50	3.75
6 inch .....	.07	.75	5.00
7 inch .....	.09	1.00	7.00
8 inch .....	.12	1.25	9.00
9 inch .....	.15	1.50	11.00
10 inch .....	.18	1.75	13.00
11 inch .....	.30	3.00	21.00
12 inch .....	.35	3.50	23.00
14 inch .....	.40	4.00	24.00

We cannot pack Earthenware Pots and Saucers for Parcel Post.

## LILLY PAPER FLOWER POT



Made of pressed paper. Heavy, strong and durable. Used extensively in greenhouses and hotbeds for starting seeds and seedlings.

No.	Size	Per Doz.	Per 100	Per 1000
2-P.....	2-inch	10c	40c	\$3.00
2 1/4 -P.....	2 1/4 -inch	10c	50c	3.25
2 1/2 -P.....	2 1/2 -inch	15c	60c	3.50
3-P.....	3-inch	20c	70c	4.00

Dozen and 100 lots by Parcel Post prepaid.  
1000 lots add 25c per 1000 by Parcel Post.



Here's a new and increasingly popular type of garden glove—specially designed to give finger freedom and complete protection.

**All-Leather — DIRT-PROOF  
SOFT AS KID — Extra Pliable**

Made from select imported leather specially processed to render it amazingly soft and pliable—as well as durable. Permit almost barchand freedom with perfect comfort, yet insure complete protection from dirt, scratches, bruises, stains. Keep the hands in perfect condition.

Economical—outwear 6 pairs of ordinary fabric gloves and are useful for other home duties the year round—Housework, Painting, Yard, Furnace, Garage, etc.

**WASHABLE!**

Sizes for women: "Small," "Medium," "Large"—for men: "Medium" and "Large." Price, 75 cents a pair (2 pairs, \$1.40) postpaid.

**WATER AND SPRAY HOSE**

Molded Non-Kink Type

	Per Ft.
1/2 inch, 2 Braid Amazon	.08
5/8 inch, 2 Braid Amazon	.09
3/4 inch, 2 Braid Amazon	.11
5/8 inch, 1 Braid Erie Cord	.09
1/2 inch, 3 Braid Amazon Spray Hose	.18
5/8 inch, 2 Braid Country Club	.15
3/4 inch, 2 Braid Country Club	.16

25 and 50 foot lengths Coupled Free

We can supply from Stock the following sizes:  
Water Hose, 1 in., 1 1/4 in., 1 1/2 in., 2 in., 2 1/2 in., 3 in.  
Suction Hose, 1 in., 1 1/4 in., 1 1/2 in., 2 in., 2 1/2 in., 3 in.  
Steam Hose, 1/2 in. to 2 in.

Prices on Application

**ADJUSTABLE HOSE NOZZLE**



Made of brass, nothing to get out of order. Can be adjusted to three different streams. For 3/4 inch Hose. Price 75c, by Parcel Post 85c.

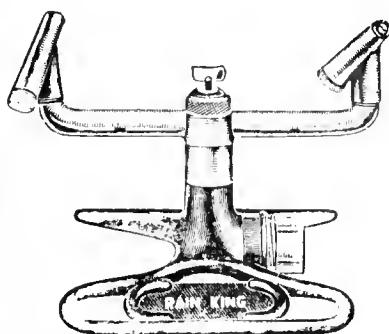
**BRASS HOSE COUPLINGS**

Complete

1/2 in.	3/4 in.	1 in.
20c	25c	35c
By P. P. 23c	28c	40c

**BRASS HOSE CLAMPS**  
1/2 inch 5c, 3/4 inch 5c, 1 inch 15c

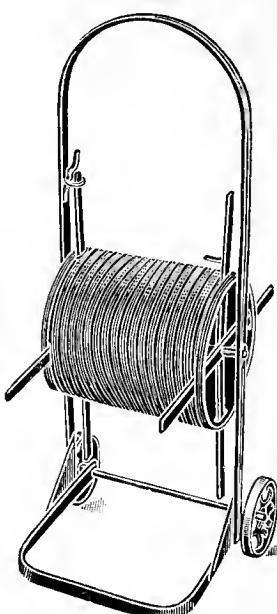
**RAIN KING LAWN SPRINKLER**



The Best Sprinkler Made

Waters a greater area. Fine or coarse spray. Revolving or stationary. Requires less pressure. Made entirely of brass except base. Cannot rust or stick. Has heavy bronze bearings, will last for years. Price, \$2.00, by Parcel Post \$2.15.

**HOSE REELS**



"Victor"

The "Victor" Reel is constructed with channel steel frame; strong, cast iron wheels; solid steel reel arm and 9-inch drum of heavy corrugated steel. Equipped with a ring on side of frame to prevent, when desired, the reel from unwinding; and with adjustable clip at top of frame for holding nozzle when spraying.

Frame enameled green, wheels and reel rack black, making a very attractive appearance.

Weight 12 1/2 pounds, bundled for shipping. Capacity 75 feet of 3/4 inch rubber hose. Price, \$1.50.

No. 2—Same as above except that it is heavier, stronger and of larger capacity. Also has an adjustable hose holder at top of frame which holds the nozzle in any position while spraying.

Weight 15 pounds, bundled for shipping. Capacity 100 feet 3/4 inch rubber hose. Price, \$3.00.

**STYLE B, LARGE SIZE**

Made with a closed drum formed of sheet steel and of heavy construction to carry large quantities of hose, red enamel finish. These reels are suitable for carrying large quantities of garden hose and various quantities of fire hose.

No. 30—29 inches high. Capacity 400 feet 3/4-inch 3-ply rubber hose. Price, \$8.65.

No. 34—34 inches high. Capacity 500 feet 3/4-inch 3-ply rubber hose. Price, \$14.00.

**STYLE C, PARK REEL**

A tubular iron reel and frame mounted on steel wheels, tires 1 1/8 inches wide.

No. 21—Height of wheels 28 inches. Capacity 200 feet 3/4-inch 3-ply rubber hose. Price, \$14.00.

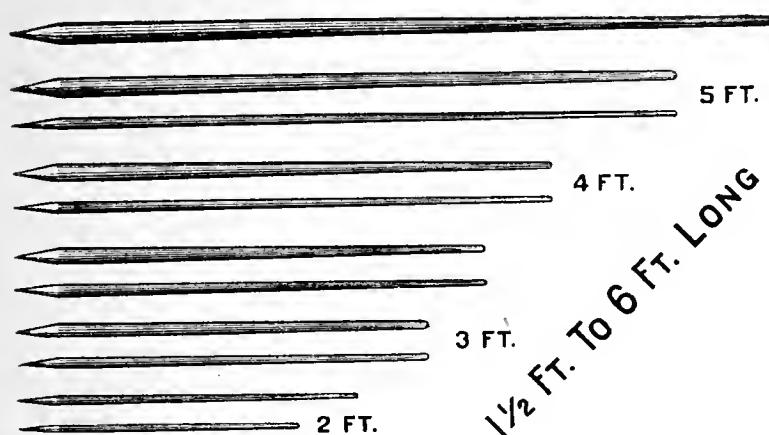
No. 31—Height of wheels 34 inches. Capacity 500 feet 3/4-inch 3-ply rubber hose. Price \$16.50.

**THE NIAGARA LAWN SPRINKLER**



Made entirely of heavy brass, nothing to get out of order. Can be easily moved about the lawn without turning off the water. Makes a beautiful spray. 75c, by Parcel Post 85c.

## PLANT STAKES



The most symmetrical stake on the market. Tapering, painted green.

## Light Stakes

	Each	Dozen	Per 100
1 1/2 feet long	.03	.25	\$1.75
2 feet long	.04	.40	3.00
2 1/2 feet long	.06	.60	4.25
3 feet long	.08	.75	5.75

## Heavy Stakes

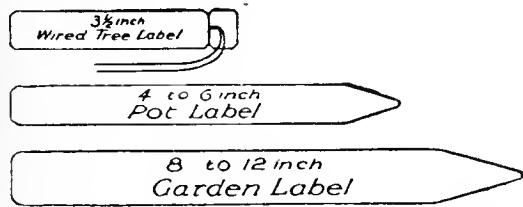
	Each	Dozen	Per 100
3 feet long	.12	\$1.15	\$9.00
3 1/2 feet long	.14	1.35	10.00
4 feet long	.15	1.55	11.50
5 feet long	.20	2.25	15.00
6 feet long	.25	2.50	17.90

## CALIFORNIA REDWOOD PLANT STAKES

Made Square. Not Tapered.

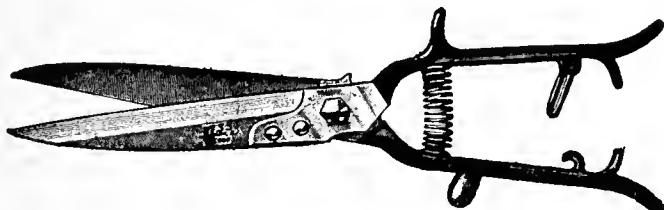
	Each	Dozen	Per 100
3 feet long	13/16 x 13/16	\$.40	\$3.00
4 feet long	13/16 x 13/16	.50	3.75
5 feet long	13/16 x 13/16	.75	5.50
6 feet long	13/16 x 13/16	.85	6.50

## POT AND TREE LABELS



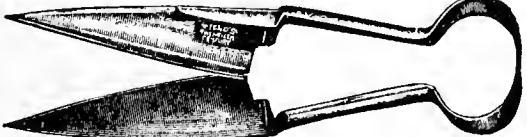
	Per 100	Per 1000
4 x 5/8 inch, Painted	\$.30	\$1.85
4 1/2 x 5/8 inch, Painted	.35	2.10
5 x 5/8 inch, Painted	.40	2.25
6 x 5/8 inch, Painted	.45	2.65
3 1/2 inch, Copper Wired	.35	2.45

## WISS GRASS SHEARS



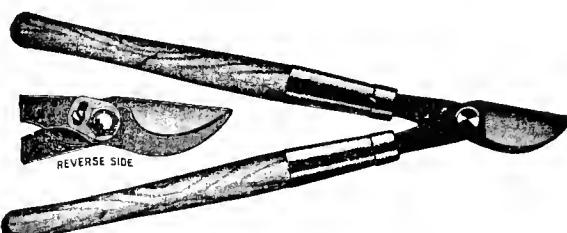
No. 500—This shear will meet the requirement of those desiring a "Real" shear. Handles slightly raised to prevent knuckles from scraping the ground. Brass spring. The same good quality that exists in all "Wiss" goods. Length 12 1/2 inches. Price \$1.50, by Parcel Post \$1.60.

## GRASS SHEARS



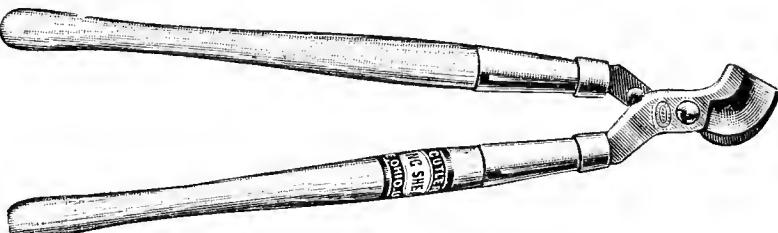
No. 346.....	\$ .50, by Parcel Post \$ .60
No. 358.....	.75, by Parcel Post .85
No. 2000.....	1.00, by Parcel Post 1.10

## No. 230 CRONK TREE PRUNER



Made of the highest grade tool steel, carefully tempered and ground, hard wood handles, 24 inches long, 29 1/2 inches over all; heavy ferrule; heavy blades for heavy work. Weight 3 pounds 11 ounces. Blades tapered off to point to allow cutting in close places. Price \$2.75, by Parcel Post \$2.90.

## No. 5406 CLYDE PRUNING SHEAR

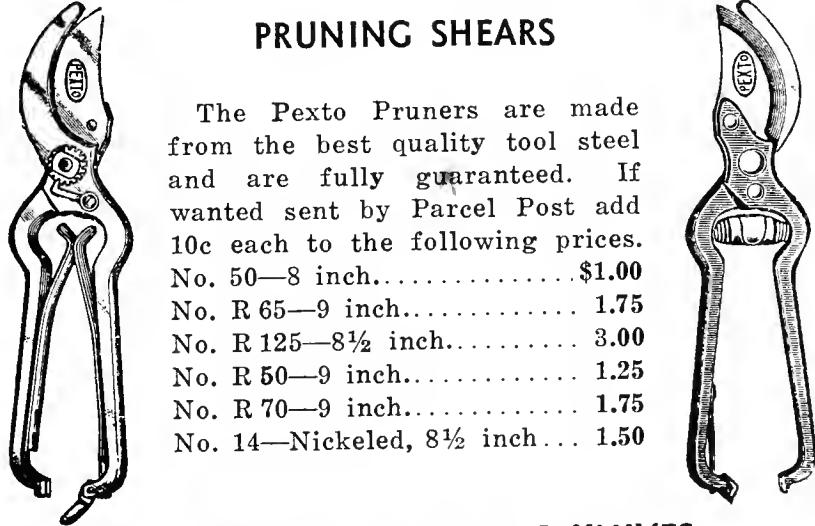


Forged solid tool steel blade and hook and positive shear cut. Handles—Northern second growth Ash polished 4-inch pressed steel ferrule and cap.

## Price:

20 inch Handle..... \$1.75, by Parcel Post \$1.95  
24 inch Handle..... 2.00, by Parcel Post 2.20

## PRUNING SHEARS



The Pexto Pruners are made from the best quality tool steel and are fully guaranteed. If wanted sent by Parcel Post add 10c each to the following prices.

No. 50—8 inch.....	\$1.00
No. R 65—9 inch.....	1.75
No. R 125—8 1/2 inch.....	3.00
No. R 50—9 inch.....	1.25
No. R 70—9 inch.....	1.75
No. 14—Nickelated, 8 1/2 inch	1.50

## BUDDING AND PRUNING KNIVES

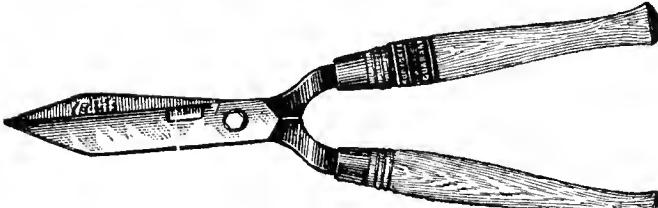


1 blade, cocoa handle, pruning, \$1.25, by Parcel Post \$1.35.



1 blade white handle, budding, \$1.50, by Parcel Post \$1.60.

## HEDGE SHEARS



American (with Notch)  
7 in. 8 in. 9 in. 10 in. 12 in.  
\$.90 \$1.00 \$1.25 \$1.50 \$1.75

## English (with Notch)

8 in. 9 in. 10 in.

\$2.75 \$3.00 \$3.50

If wanted by Parcel Post add 20c to above prices.

## HEDGE SHEARS—With Serrated Edge

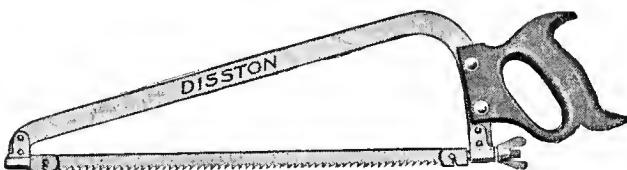
No. F. 101—8 inch.....	\$2.50 Each
No. F. 101—9 inch.....	2.75 Each
No. F. 101—10 inch.....	3.00 Each

**"LITTLE WONDER" HEDGE TRIMMER**

This little machine is really a wonder. It does the work very much more rapidly and much neater than with the old style hedge shears. Makes hedge trimming a pleasure. Made in three sizes. 30 inch, 40 inch, 60 inch.

Price:

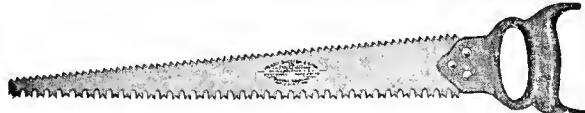
30 inch .....	\$25.00
40 inch .....	27.50
60 inch .....	35.00

**DISSTON PRUNING SAW**

This is the most practical pruning saw made. Owing to its peculiar shape, being tapered off to a point permits cutting in between the limbs. The blade is adjustable and will cut at any angle desired and can be removed to replace a new one. Made of the best quality steel.

Price..... \$2.00, by Parcel Post \$2.15

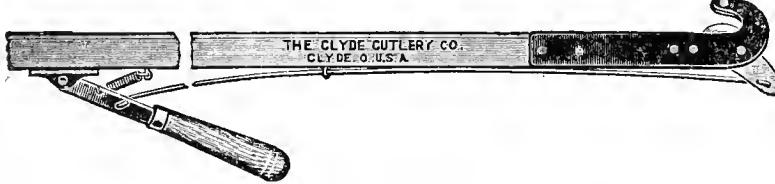
Extra Blades 40c, by Parcel Post 45c.

**DOUBLE EDGE PRUNING SAW**

Made of the very best material. One side has fine teeth and the opposite has coarse teeth.

Price:

16 inch.....	\$1.35, by Parcel Post \$1.45
18 inch.....	1.50, by Parcel Post 1.60
20 inch.....	1.75, by Parcel Post 1.85

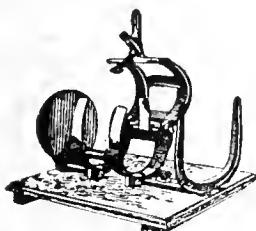
**No. 5407 TREE TRIMMER**

Both the blade and hook of this trimmer are made from the best tool steel, firmly riveted to selected Basswood handles. The sides of the hook extend down on to the handle for 6½ inches, making a firm bearing and an unusually strong connection with the pole.

Price:

6 feet.....	\$1.75	12 feet.....	\$2.40
8 feet.....	2.00	14 feet.....	2.60
10 feet.....	2.20	Extra Blades.....	.20

The above tree trimmers are all on long handles and cannot be sent by Parcel Post.

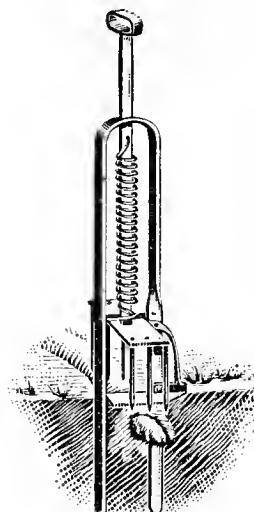
**ASPARAGUS BUNCHER**

To sell asparagus to the best advantage, it must be packed right and unless you have a good buncher your bundles will not be uniform. This buncher is made of good material throughout, is adjustable for length and thickness, making a neat, compact, and uniform bundle.

Price \$4.50

**ASPARAGUS KNIVES**

Made of steel. Point specially made for cutting asparagus. Price 40c each

**REDDICK MOLE TRAP**

Reddick Traps sound "taps" for Mr. Mole and his burrowing family.

Extensively used in public or private parks, farms, schools, colleges, cemeteries, etc.

Entire Trap Double Tinned. Rust-Proof. Price \$1.25, by Parcel Post \$1.35.

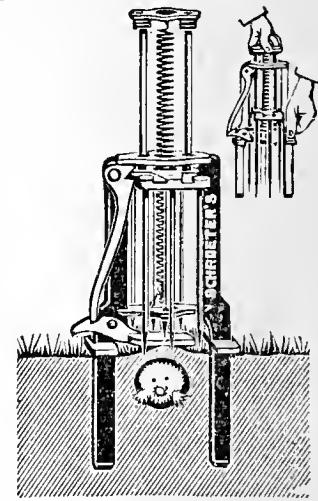
**SCHROETER No. 1 IMPROVED SELF SETTING MOLE TRAP**

Frame is made of malleable iron. Prongs are of tool steel.

High tension spring. Especially adapted for setting in hotbeds.

Just pull up spring and the lever drops into position and trap is set.

Price \$1.75, by Parcel Post \$1.85.

**GRAFTING WAX**

For use in grafting trees, and for tree wounds.  $\frac{1}{4}$  lb. 15c, by Parcel Post 20c;  $\frac{1}{2}$  lb. 25c, by Parcel Post 30c; 1 lb. 40c, by Parcel Post 47c.

**WIRE FRUIT PICKER**

Well made and durable. Fruit can be picked without bruising. Made of No. 12 copperized wire. Will not rust. Price less pole 50c, by Parcel Post 60c.

**LIGHTNING WIRE PLANT TIE**

PAT.  
Apr. 27-20

Takes the place of twine; can be used more quickly and many times. 1000 Ties in package, \$2.00, by Parcel Post \$2.15.

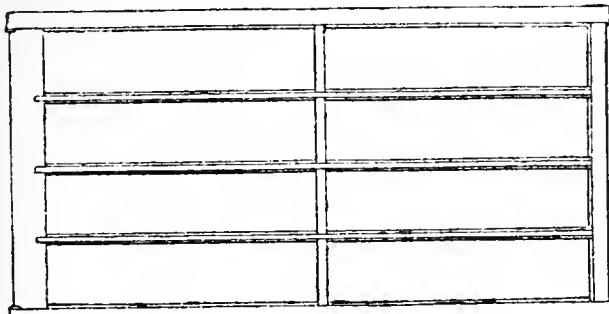
**"PERFECTION" COW TAIL HOLDER**

Made of heavy spring steel wire. Easy to put on, easy to take off. Will not annoy the cow. Makes milking a pleasure. Price 30c, by Parcel Post, prepaid.

**WIRE HORSE MUZZLES**

Used when cultivating corn, to prevent the horse from biting off the blades of corn. Made with No. 16 gauge wire, heavily braced. Price 15c each, by Parcel Post 25c each.

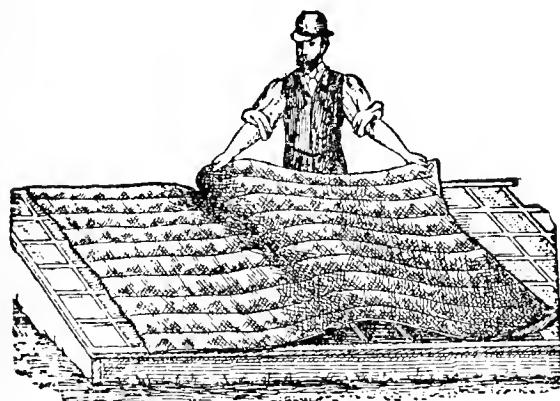
## HOT BED SASH



Made of the best white pine, well mortised and perfectly clear of knots. Two sizes to hold either 24 or 28 8 x 10 panes.

24 Light                    28 Light  
Price of Either Size, Unglazed..... \$1.75 each  
Hot Bed Glass, 8 x 10, per box of 90 panes..... \$2.75

## HOT BED MATS



Made of heavy burlap, interlined with wool.

	Each
40 x 76 inches to Cover One Sash.....	\$1.50
76 x 76 inches to Cover Two Sashes.....	2.40
Waterproof	
40 x 76 inches, Duck one side.....	\$2.25
76 x 76 inches, Duck one side.....	3.00
Special Price by the Dozen	

## VAN REYPER GLAZING POINTS

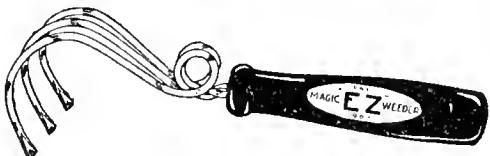


Simple and positive. No rights or lefts. Per 1000 75c, by Parcel Post 85c.

## MASTICA

A very excellent material for glazing greenhouses, hot-bed sash, etc. It is not affected by climatic conditions. Easy to apply. Per gallon \$2.25.

## MAGIC "E-Z" WEEDE



Light in weight, strong in construction. An excellent tool. Three-tine. Made of No. 8½ steel wire. Nicely trimmed. Black enameled handle.

Prices:  
Small..... 20c, by Parcel Post 27c  
Large..... 25c, by Parcel Post 32c

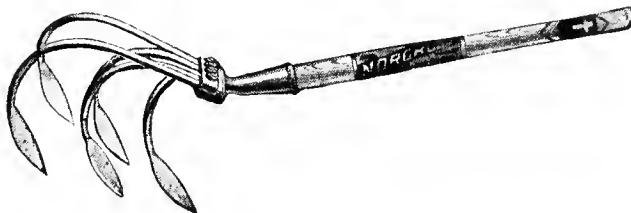
## EXCELSIOR WEEDE



Has five fingers of heavy cast iron. Heavily tinned to keep from rusting. Black enameled handle. Price 15c, by Parcel Post 22c.

## VICTORY GARDEN CULTIVATOR

A very handy garden tool. Strong and durable.  
No. C3—4 foot Handle, 3 Adjustable Steel Blades..... .75  
No. C5—4½ foot Handle, 5 Adjustable Steel Blades.... \$1.00



## SPEEDY CULTIVATOR



A superior tool for preparing ground for seeding and cultivating after the planting is done. 4 tines. 4½ foot handle with riveted shank. Width across tines 5 inches and will dig to depth of 5 inches. No. 4-S.C. Price 75c.

## GARDEN TROWELS



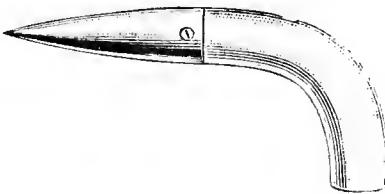
No. D.S.G.T.—As illustrated. Forged from one solid piece of bar steel. Solid socket. Blades 6 x 3½ inches. Handles 6 inches long. Price 75c, by Parcel Post 83c.

No. 809—Kingsbury All Steel Trowel. Blade 6¼ x 3 inches. Steel handle. Price 25c, by Parcel Post 33c.

No. 217—6 inch Planting Trowel. Steel blade. 5½ x 1½ inch wood handle. Price 15c, by Parcel Post 22c.

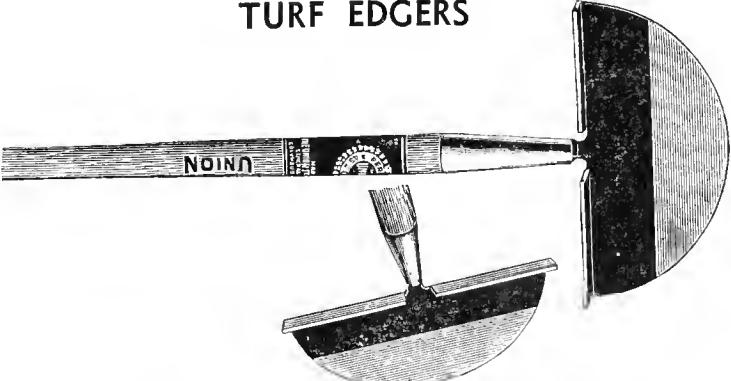
No. 217—Planting Trowel. Steel blade 7 x 2 inches. Wood handle. Price 25c, by Parcel Post 32c.

## DIBBLES



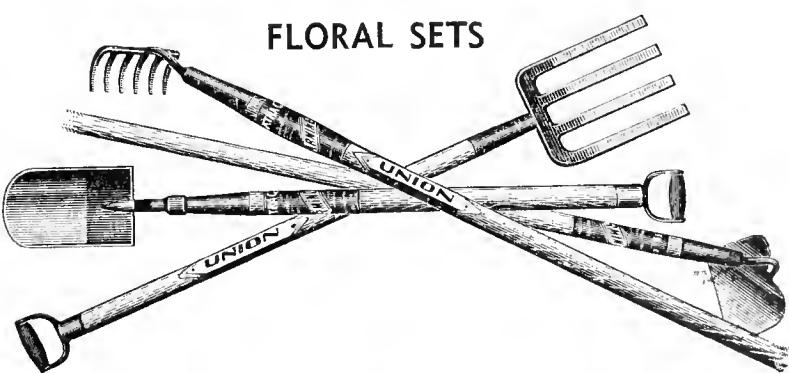
No. 218—Right Angle. Wood handle. Steel point. Price 75c, by Parcel Post 85c.  
Steel Points only for No. 218 Dibbles 60c.

## TURF EDGERS



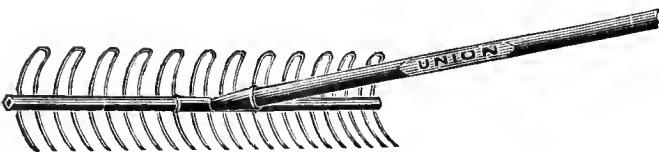
No. S. T. E.—Polished steel blade. Solid shank. 4-foot handle. Bronze finish. Price 90c.

## FLORAL SETS



Real honest to goodness tools, not play toys.  
No. 3FS—3 pieces, Shovel, Hoe and Rake. Price per set \$1.75.  
No. 4FS—4 pieces, Shovel, Hoe, Rake and Spading Fork. Price per set \$2.25.

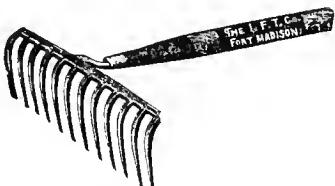
## WIRE LAWN RAKES



Heavy tinned steel wire; can be reversed as can be seen by the above cut. 21 inches wide, 24 teeth.

Price 75c.

## GARDEN RAKES



## STEEL GARDEN RAKES

Forged from one solid piece of steel, teeth hammer drawn, single shanks, straight teeth.

No.	Description	Price
YS10	10 teeth	.75
YS12	12 teeth	.80
YS14	14 teeth	.90
YS16	16 teeth	1.00
SC12	12 curved teeth	.80
SC14	14 curved teeth	.90
SC16	16 curved teeth	1.00
B12 Bow Braced	12 curved teeth	.90
B14 Bow Braced	14 curved teeth	1.00
B16 Bow Braced	16 curved teeth	1.10
Malleable		
MS10—Single Shanks	10 straight teeth	.50
MS12—Single Shanks	12 straight teeth	.55
MS14—Single Shanks	14 straight teeth	.60
MS16—Single Shanks	16 straight teeth	.70

## STEEL BRUME RAKE

The fingers of the Brume-Rake are made of strips of flat steel, which brush gently through the grass, picking up the smallest litter without injuring the roots. The flexible fingers adapt themselves to every irregularity of the ground and sweep it cleanly. 22 teeth. 42 inch handle. Price 75c.



No. B. R. F. 22

## SAMPY BAMBOO LAWN RAKE

Strongly made, easy to handle, 33 bamboo strips are spread fan-shaped and reinforced with wire and rattan, bent ends of bamboo strips form the teeth. Securely bolted and clamped to handle. Price 25c.

## WOOD RAKES

24 Tooth, Wire Braced..... 60c

## OLE OLSEN WOOD LAWN RAKES

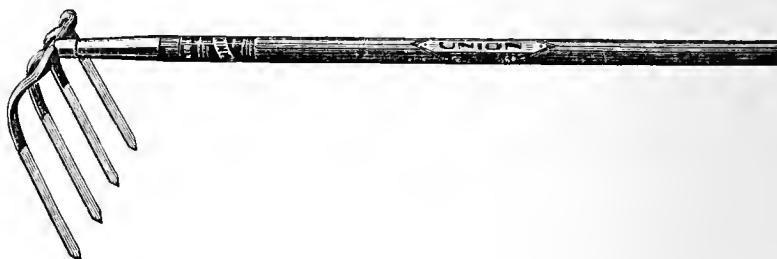
Made of best hardwood, well braced.  
26 Teeth, Hickory Wood..... 75c

## GARDEN HOES



No. RHSG—Socket.	Polished Blade.	6, 7 and 8 inches	\$ .90
No. RHSG—Shank.	6, 7 and 8 inch blade		.75
No. HSMA—Mattock Hoe.	Blade 3 inches on one side, 1½ inches on opposite side		1.25
No. SPW—Single Point Weed Hoe			.50
No. 2PW—Two Point Weed Hoe			.50
No. W7—Pointed Warren Hoes	7 inches		1.00
No. W7½—Pointed Warren Hoes	7½ inches		1.25

## STEEL POTATO HOOKS



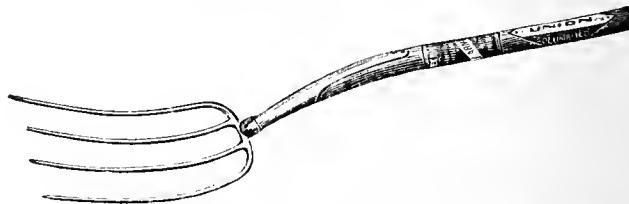
No. 4BOL—4 Light Oval Tines	\$1.00
No. 4BOH—4 Heavy Oval Tines	1.25

## SPADING FORKS



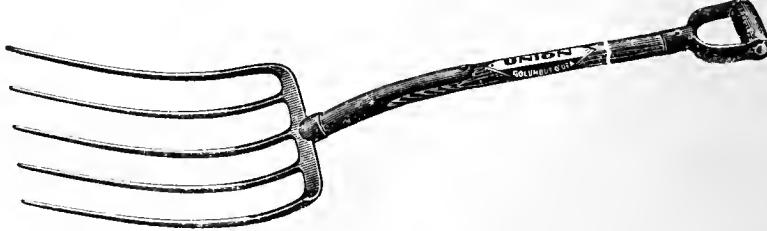
No. SALD—Light; Strapped Ferrule	\$1.25
No. JSAD—Extra Heavy Jumbo	1.75
No. E4DS4—English Pattern	1.75

## MANURE FORKS



No. S44—4 Tine. Strapped Ferrule. 4-foot Handle	\$1.25
No. S44½—4 Tine. Strapped Ferrule. 4½-foot Handle	1.35
No. 44—4 Tine. Bachelor Strapped Ferrule. 4-foot Handle	1.60

## HEAVY MANURE FORKS



No. EHDM4—4 Tine. D-Handle, Strap Ferrule, Extra Heavy Angular Tine	\$2.50
No. EHDM5—5 Tine. D-Handle, Strap Ferrule, Extra Heavy Angular Tine	2.75

## LONG HANDLE SHOVELS



Ames No. 2 Round Point Long Handle.....	\$1.75
Stormer No. 2 Round Point Long Handle.....	1.25
Ground Hog No. 2 Round Point Long Handle.....	1.00

## D-HANDLE SHOVELS



Ames No. 4 D-Handle Square Point.....	\$2.00
Ames No. 5 D-Handle Square Point.....	2.25
Hercules No. 3 D-Handle Square Point.....	1.00
Hercules No. 4 D-Handle Square Point.....	1.15
Hercules No. 5 D-Handle Square Point.....	1.25

## LONG AND SHORT HANDLE SPADES



Ames No. 2 D-Handle.....	\$2.25
Ames No. 2 Long Handle.....	2.25
Hercules No. 2 D-Handle.....	1.50
Hercules No. 2 Long Handle.....	1.50

## MATTOCKS



Best Quality, without Handle.....	\$1.25
With Handle .....	1.50

## GRUB HOE or HALF MATTOCKS

Without Handle .....	\$1.00
With Handle .....	1.25

## HAY KNIVES



LIGHTNING HAY KNIFE—\$1.75, by Parcel Post \$1.90.  
 AMERICAN (Sickle Edge)—Can be adjusted right or left hand. \$2.00, by Parcel Post \$2.20.

## GRASS HOOKS



No. 2 English Riveted Back.....	\$ .65
No. 3 English Riveted Back.....	.75
No. 4 English Riveted Back.....	.85
No. 1 1/2 Austrian.....	.60
No. 7 American.....	.50

If sent by Parcel Post, add 10c each to above prices.

## GRASS AND BUSH SCYTHES



English T. Waldron, 30 to 32 inches .....	\$2.25
English T. Waldron, 34 to 36 inches .....	2.50
Kelly, 26 to 28 inches.....	1.50
Kelly, 32 to 36 inches.....	1.75
No. 4—32 inch, Austrian.....	2.25
No. 46—32 inch, Austrian.....	2.25
No. 96—32 inch, Austrian.....	2.00
No. 8 1/2—32 inch German.....	2.50

## SCYTHE SNATHS



No. 55—Patent Loop Grass Snath.....	\$1.50
No. 105—Patent Loop Bush Snath.....	1.50
No. 100—Two-Ring Bush Snath.....	1.60

## SCYTHE STONES



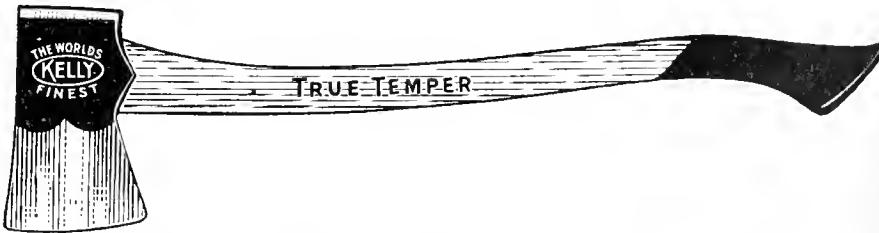
Round English .....	25c, by Parcel Post, 35c
Darby Creek .....	20c, by Parcel Post, 30c

## BUSH AND BRIAR HOOKS

Axe Handle Bush Hook, Light.....	\$1.75
Axe Handle Bush Hook, Heavy.....	1.85
No. 1137—Two-Ring Bush Hook.....	1.50

If sent by Parcel Post add 15c each to above prices.

## KELLY AXES



Best quality axe made. 4, 4 1/2 and 5 pounds. Handled complete with 34 inch best hickory handle. Price \$2.00.

**ONE SPOT FLEA KILLER**

One Spot Flea Killer will kill all the fleas on a dog or cat even if applied only on one spot as large as the animal's footprint. It does not repel fleas; it kills them. Application once a week is positive insurance against the dog's arch enemy, as it will kill any flea that lands on him before it can start raising a family and colonizing. Price, 25c and 50c.

**WALKO TABLETS**

Especially valuable for diarrhoea and loose bowel trouble among incubator chicks. They tend to prevent digestive disturbances and should be given in all drinking water from the time the chicks are out of the shell. Also recommended for swellings of roup in the head and simple catarrh among older birds. Price postpaid, small size 50c, large size \$1.00.

**"DOGZOFF"**

"Dogzoff" is a spray that is the result of much thought and scientific experimentation. Its use discourages dogs from the habits that are so destructive to evergreens and from frequenting any place where they are undesirable and not wanted. Protects your property. Is not harmful to dogs. Price, 50c. By Parcel Post 60c.

**KOW KARE**

For over thirty years "The Great Cow Medicine," its value and appreciation is attested by an ever-increasing demand among dairymen and breeders. It is unexcelled as a general tonic for the herd that is under the severe strain of forced production and the abnormal conditions of long winter stabling and dry feeding. It cures abortion, barrenness, scouring and caked udders, removes retained after-birth, etc. It increases the milk flow. For cows only.

Small Size ..... \$ .65  
Large Size ..... 1.25

**BAG BALM**

A soothing, penetrating ointment, especially adapted for all diseases of the cow's udder. Reduces inflammation, allays irritation and local congestion and softens the tissues. For caked bag, garget or swollen udders following calving or high feeding. It promotes healing of cracked chapped skin and minor cuts; makes the teats soft and pliable. Price 60c.

**AMERICAN HORSE TONIC**

For horses only. For that logy look. It is designed for horses only and it only takes a few doses to show how quickly the animal will improve under its use. It improves the appetite. The hair or coat smooths up. Package, containing twenty-four small boxes, one dose in a box.

Price 65c per package

**MILK BOTTLES**

Strong and durable. Made to stand the rough usage of washing, delivery and collection on routes and sterilizing in dairy houses. Made of clear flint glass, with long neck. Quart Pint  $\frac{1}{2}$  Pint

One Dozen ..... \$ .80      \$ .70      \$ .60  
One Gross ..... 8.50      6.50      5.75

**MILK BOTTLE CAPS**

Our caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine. Made with a lift to take the cap out, thus preventing spilling.

One Thousand ..... \$ .65  
Five Thousand ..... 3.00

**PRATT'S POULTRY REGULATOR**

The varied mineral elements of this preparation are principal ones found in the muscles, feathers, nerves, beak, bones and eggs. Since feeds are frequently deficient in some of these minerals, Pratt's Poultry Regulator acts as a desirable supplement to the diet. In addition there is embodied in Pratt's Poultry Regulator a carefully selected combination of natural vegetable products which serve as tonics, appetizers, stomachics, carminatives and aromatics.

Pkgs. 25c and 50c, 12½ lb. pkg. \$1.50, 25 lb. pail \$2.75.

**PRATT'S N-K CAPSULES (For Poultry Worms)**

N-K Tablets contain nicotine and Kalama in the proper therapeutic dose. These two vermifuges are most highly recommended by all leading authorities.

**ADULT SIZE**—50 tablet pkg. 85c, 100 tablet pkg. \$1.50, 500 tablet pkg. \$5.50, 1000 tablet pkg. \$10.00.

**CHICK SIZE**—50 tablet pkg. 55c, 100 tablet pkg. \$1.00, 500 tablet pkg. \$3.75, 1000 tablet pkg. \$6.50.

**PRATT'S DISINFECTANT**

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it in roup, colds and other contagious diseases.

Pint ..... \$ .35  
Quart ..... .50  
½ Gallon ..... .85  
1 Gallon ..... 1.45  
5 Gallon Drums ..... 6.50

**PRATT'S POULTRY WORM POWDER**

Highly recommended by leading poultrymen. Worms in poultry are one of the greatest menaces to the poultry raiser. Worms sap the vitality and reduce the egg-laying capacity. Pkg. 60c.

**PRATT'S GAPE COMPOUND**

For external administration. Safe, sure, and gives quick relief. Pkg. 50c.

**CREONOID**

**Relieves Cattle and Horses from Flies.**—A liquid preparation carefully compounded from effective materials. It is of the right consistency for applying with a sprayer, and it will not gum the hair or blister the skin.

**A Sure Preventative for Lice, Ticks and Vermin.**—A light application of Creonoid will relieve cattle from lice; also prevent tick—the cause of Texas Fever. 1 gal. \$1.25, 5 gals. \$4.25.

**DR. BLACKMAN'S MEDICATED LICK A BRICK**

A medicated salt brick for horses, mules, cattle and sheep. It is the "common sense way to give medicine to stock," because you don't mix the medicine with the feed; because it supplies stock with salt as needed in addition to medicine and uniform salting is more important than medicine. Just drop a brick in the feed trough and the stock will do the rest. Price 25c each.

## CHAMPION CREAM SEPARATOR

This Separator maintains such uniformity in the flow of milk to the disks or in the spaces between the disks in the separator bowl that every disk does its full share of skimming. This uniformity of skimming on the part of each disk is so complete that we guarantee tests made from a sample of the whole swirled milk to show the same degree of cleanliness in skimming as made during any part of the run.

The Champion Cream Separator has many patented features not found in other separators, among them being the Champion Perforated Distributing and Equalizing Sleeve which is the most valuable improvement ever placed in Separators and which, when combined with a disk skimming bowl, makes the Champion the best Separator made.

The Champion Steel Clutch is simple, durable and impossible to miss a catch.

The Champion Automatic Oiling System, requiring minimum of attention and guaranteed to lubricate the working parts of the Separator very much superior to any other method.

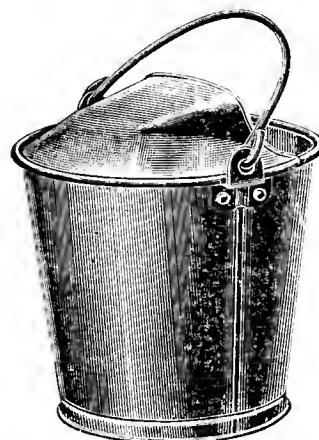
The Champion Speed Indicator, aiding the operator without special attention, to keep speed regular, which is quite essential for close separation.

No.	Capacity	Type	Height	Weight	Price
1 1/2	150 lbs. (1 to 2 cows)	Bench	22 1/2 ins.	55 lbs.	\$20.00
2 1/4	225 lbs. (1 to 3 cows)	Bench	22 1/2 ins.	55 lbs.	22.50
3	300 lbs. (1 to 5 cows)	Bench	22 1/2 ins.	60 lbs.	27.00
300	300 lbs. (1 to 5 cows)	Floor	45 ins.	165 lbs.	55.00
500	500 lbs. (1 to 8 cows)	Floor	47 3/4 ins.	210 lbs.	62.00
700	700 lbs. (1 to 14 cows)	Floor	47 3/4 ins.	215 lbs.	69.00
900	900 lbs. (1 to 20 cows)	Floor	47 3/4 ins.	220 lbs.	72.00
	Steel Floor Stand for				
	No. 1 1/2, 2 1/4, 3	27 ins.	35 lbs.	6.00	
	Clutch Pulley for				
	No. 300, 500, 700, 900		24 lbs.	7.50	
	Electric Motor				
	Attachment Complete		100 lbs.	45.00	

## MILKING PAILS

Sanitary Milking Pails, extra heavy, all seams soldered inside and outside.

The hood keeps impurities from dropping in the pail during milking. Approved by leading milk dealers and approved and strongly recommended by dairy inspectors.  
12 qt. \$1.50      14 qt. \$1.60



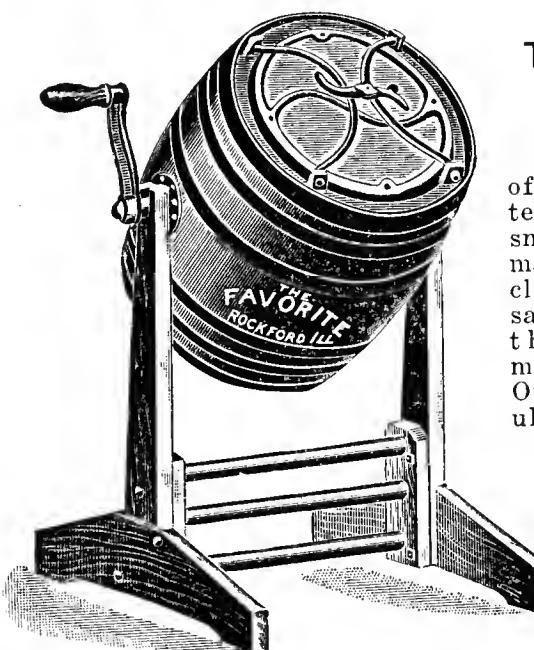
## SANITARY MILK STRAINER

Heavy charcoal plate. With removable strainer. Price \$1.25.



## WELLS, RICHARDSON &amp; CO.'S BUTTER COLOR

The best Butter Color on the market. Small bottle, colors 500 lbs., 35c; large bottles, 65c and \$1.00.



## THE FAVORITE CHURN

This Churn is made of good, hard material, well varnished smooth on inside, making it easy to clean and perfectly sanitary. Well braced throughout. Will make butter quickly. One of the most popular Churns offered.

No.	Size, Gallons	To Churn	Price
0	6	3	\$ 7.50
1	10	5	8.50
2	15	7	9.75
3	20	10	11.50
4	25	13	14.00
5	35	18	16.00

Pulleys for Large Sizes from \$2.50 to \$5.00

## IMPROVED CEDAR CYLINDER CHURN

Made of selected cedar free of knots.

No. 1—2 1/2 gals.	\$4.00
No. 2—4 gals.	4.75
No. 3—7 gals.	5.50
No. 4—10 1/2 gals.	6.25



## ROPE, TWINE AND CORDS

3/8-inch Manila Rope	Per lb.	\$ .25
1/2-inch Manila Rope	Per lb.	.24
5/8-inch Manila Rope	Per lb.	.23
3/8-inch Cotton Rope	Per lb.	.35
1/2-inch Cotton Rope	Per lb.	.35
2-ply Jute Twine (1/2 pound Balls)	Per lb.	.22
3-ply Cotton Cord (1/4 pound Balls)	Per lb.	.35
4-ply Cotton Cord (1/4 pound Balls)	Per lb.	.35
6-ply Cotton Cord (2 1/2 pound Cones)	Per lb.	.36
Raffia for Tying Asparagus (1 to 5 pound Hanks)	Per lb.	.25
Asparagus Tape—Red (1,000 Yards to Spool)	Per spool	1.75
21-ounce Fodder Yarn (25 and 50 lb. Spools)	Per lb.	.10

## ASEPTIC MILKING TUBES

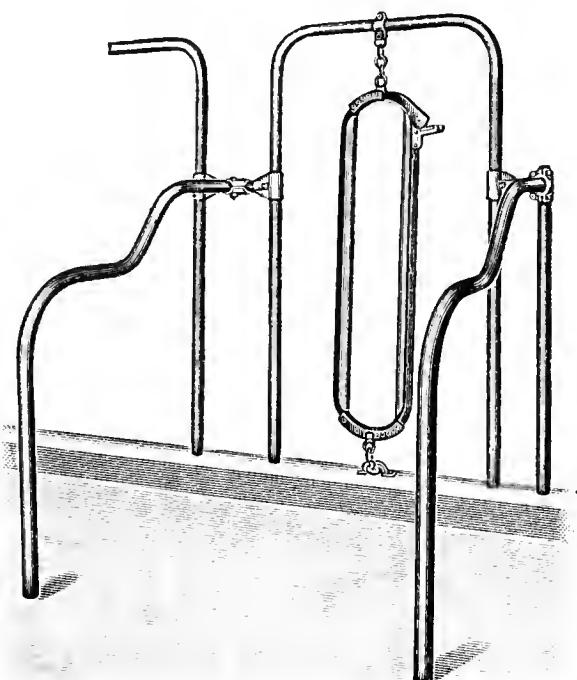
For Cows with Sore Teats  
Insert one in the teat and the milk will flow.  
Self Retaining Tube 40c Postpaid  
Plain Tube 30c Postpaid

## PUSH BROOMS

Designed for cleaning stable floors, gutters, etc. Made of good strong fibre; bristles so placed as to make it impossible for them to pull out. Prices, less handle, 75c; with handle, \$1.00.

## COW STANCHIONS AND STALLS

### NEY ARCH TYPE STALL

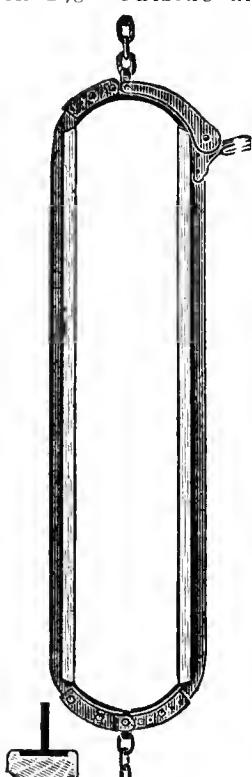


No. 75

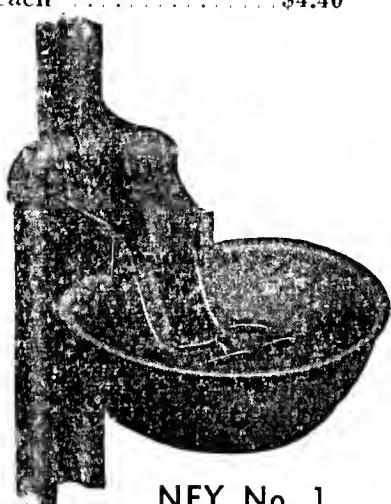
fied malleable iron. Standard width of stalls, 3'6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 45 lbs. Can be furnished in 1 $\frac{1}{8}$ " outside diameter pipe or tubing upon special order. List, each . . . . . \$7.85

### No. 1 STANCHION

Made exceptionally strong of high-grade steel and malleable iron. Adjustment 7" to 8 $\frac{1}{2}$ " in width; finish Ney gray enamel; T-bar high carbon steel, 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 3/16"; hard wood lining, 1 $\frac{3}{4}$ " wide,  $\frac{7}{8}$ " thick, selected, well seasoned; height of stanchion, 4'; height of stanchion, including chains, 4'11". Weight each, 20 pounds. List, each . . . . . \$4.40



No. 1



No. 2

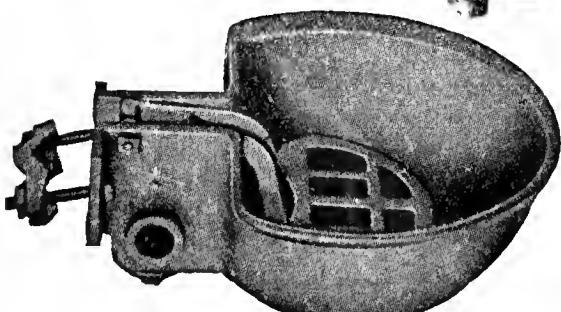
NEY No. 1

### WATER BOWL

Ney No. 1 Bowls cannot splatter or splash. They are sanitary in construction and easily cleaned. They attach anywhere and to any type of stall. The inlet is through a  $\frac{3}{4}$ " street ell that may be entered at any angle. The pedal may be raised to clean out chaff, etc., and the cup need not be taken away to clean. By releasing a small trip well under the frame and not accessible to the cow, the cup may be released to swing down, but remains secure to be cleaned and is brought back into position by simply lifting up on the cup, which latches itself.

### NEY No. 4 WATER BOWL

No. 4 Rigid Bowl is of one-piece cast iron; gray enamel finish. Has part brass valve; easily cleaned and adjusted to any water pressure. Can be attached to flat wood surface as well as pipe. Fully warranted to give satisfaction and long life. Weight 10 pounds. List, each . . . . . \$2.60



List, each . . . . . \$3.95

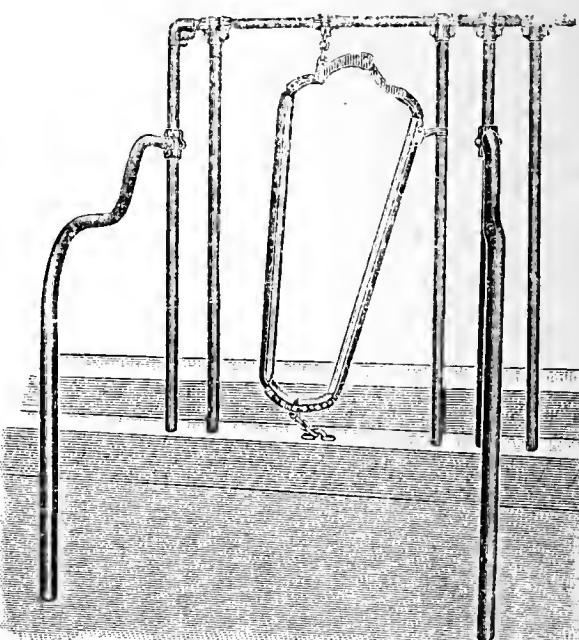
### Specifications No. 75 Stall

Made of stiff, high quality steel pipe or tubing, 1 $\frac{1}{8}$ " outside diameter. Fittings of heavy steel and certified malleable iron. Width of arch unit, 30", center to center. Standard width of stalls, 3'6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 45 lbs. Can be furnished only in 1 $\frac{1}{8}$ " outside diameter pipe or tubing. List, each . . . . . \$6.20

### Specifications No. 30 Stall

Built entirely of 1 $\frac{1}{8}$ " outside diameter, stiff, heavy steel pipe or tubing; fittings of heavy steel and certi-

### NEY THREE POST STALL



No. 30

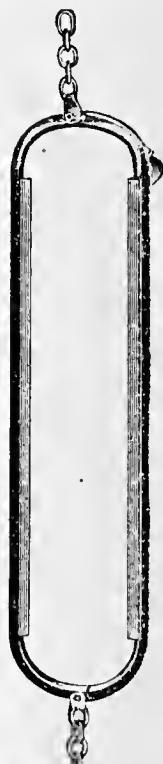
fied malleable iron. Standard width of stalls, 3'6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 60 lbs. Can be furnished in 1 $\frac{1}{8}$ " outside diameter pipe or tubing upon special order. List, each . . . . . \$7.85

### No. 2 STANCHION

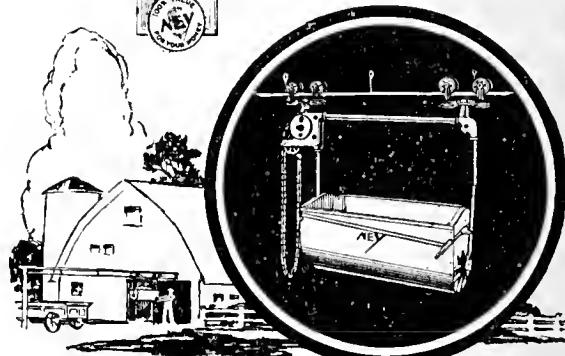
Tubing 1-5/16" outside diameter, smooth, stiff steel; rounded ends of malleable iron; finished in Ney gray enamel. Weight 20 pounds each. List, each . . . . . \$4.40

### No. 5 STANCHION

Frame, 1-5/16" x  $\frac{7}{8}$ " x 3/16" steel U-bar; lining, 1 $\frac{3}{8}$ " x  $\frac{3}{4}$ " seasoned hard wood. Hinge formed by bolt passing through overlapped ends of frame. Rest bracket and folding toggle parts of heavy steel. Welded top and bottom chains. Length of stanchion, including chains, 58"; width, 7 $\frac{1}{4}$ ". Finish, metal parts in Ney gray enamel, wood in linseed oil. Weight 16 pounds each. Packed two in a bundle. List, each, Wood Lined . . . . . \$2.70 List, each, Unlined . . . . . 2.40



No. 5



### No. 1 LITTER CARRIER

With Standard Tub, list price . . . . . \$56.00  
With Large Tub, list price . . . . . 58.00

### No. 2 LITTER CARRIER

With Standard Tub, list price . . . . . \$48.50  
With Large Tub, list price . . . . . 50.50

### TUB SPECIFICATIONS

Large tub, 42" long, 23" deep, 25" wide, 110 pounds.  
Standard tub, 42" long, 25" wide, 19" deep, 110 pounds.

Standard Tub, list only . . . . . \$20.50  
Large Tub, list only . . . . . 22.50



## MILK CANS

## Baltimore Pattern Railroad Milk Cans.

Our regular stock Can. Made of strong, very best material; straight neck, drop handle. Sizes:

20 qt. .... \$3.25  
30 qt. .... 4.25  
40 qt. .... 4.50

Name Plates put on 40c each.

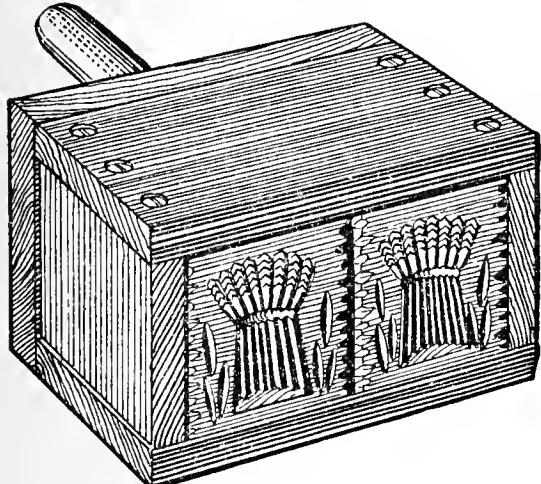
Permit Tags 15c each.

## FLOATING DAIRY THERMOMETERS



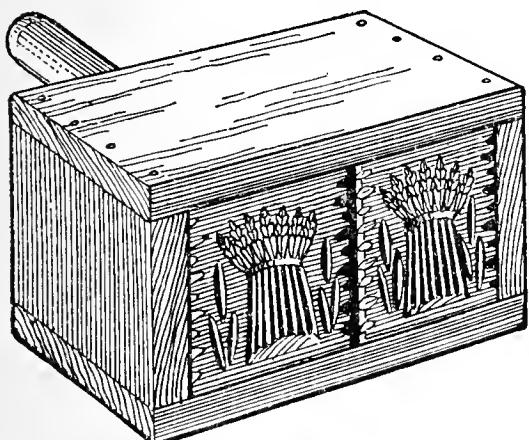
8 inch ..... Price 50c; by P. P. 55c  
8 inch Flange Thermometer, stands boiling water, \$1.25;  
by P. P. \$1.35.

## BALTIMORE PATTERN, HAND-MADE BUTTER MOLD



This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use.

Price  
1/2 lb. \$1.25;  
by P. P. \$1.35.  
1 lb. \$1.50;  
by P. P. \$1.70.



## BUTTER MOLD

Seeley Pattern  
Furnished with  
Sheaf of Wheat.  
Movable block.

Price  
1/2 lb. 65c;  
by P. P. 75c.  
1 lb. 85c;  
by P. P. 95c.

## PIERCEASY BULL RINGS

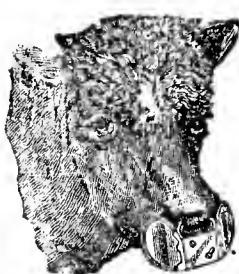
## A Quality Product

Made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp, smooth point cuts a clean hole. Size No. RB-4, 7/16x 3 1/2. Bronze. Price \$1.75 each; by P. P. \$1.82.



## COPPER RINGS, BLUNT

2 1/2 inch..... 40c, by P. P. 45c  
3 inch..... 50c, by P. P. 55c



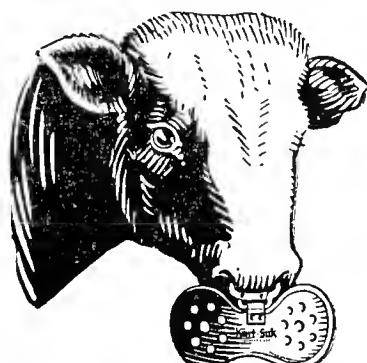
## RICE'S CALF WEANER

Very effective for weaning calves and preventing cows sucking themselves.

No. 1, for calves, 35c; by P. P. 42c.  
No. 2, for heifers, 50c; by P. P. 57c.  
No. 3, for cows, 75c, by P. P. 82c.

## PARCHMENT BUTTER PAPER

We handle only the very best quality cut in the following sizes: 6x9 for 1/2 lb prints. 9x12 for 1 lb prints. 10x15 for 2 lb. prints. Price per pound 30c; by P. P. 38c; Price per 5 pounds \$1.40; by P. P. \$1.52.

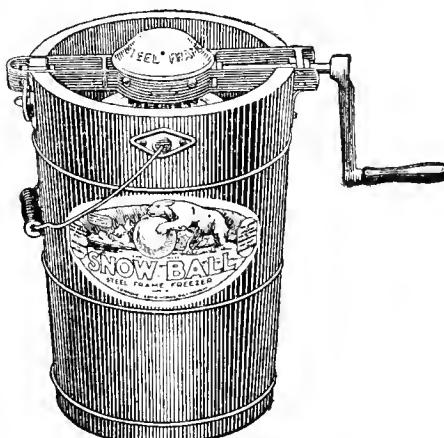


## KANT-SUK CALF WEANER

Here is a dairy specialty that is in good demand the whole year 'round — Kant-Suk Calf Weaners. Light, strong and humane—cannot possibly injure cow or calf. Being made with a hinge joint, it swings out of the way when calf eats or drinks, but effectually prevents sucking.

35c, by P. P. 42c  
50c, by P. P. 57c  
75c, by P. P. 82c

## "SNOW BALL" FREEZER



Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the side with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two beaters moving in opposite directions keep the cream ever changing position,

producing in about three minutes a very smooth, well beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar. Retail Prices: 2 qt. \$3.40, 3 qt. \$4.05, 4 qt. \$5.00, 6 qt. \$6.30, 8 qt. \$8.10.

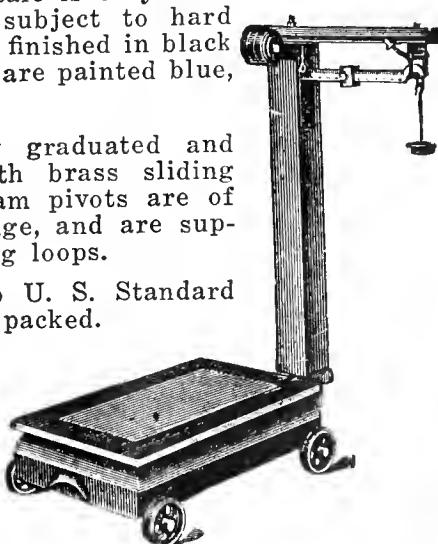
## Simplex Platform Scale

This is the best cheap-grade Portable Platform Scale on the market. It is intended for use where a Scale is only used occasionally, and is not subject to hard usage. The iron parts are finished in black Japan, and the wood parts are painted blue, and are well finished.

The beam is carefully graduated and made of solid brass, with brass sliding poise. The lever and beam pivots are of steel drawn to a knife edge, and are supported in hardened bearing loops.

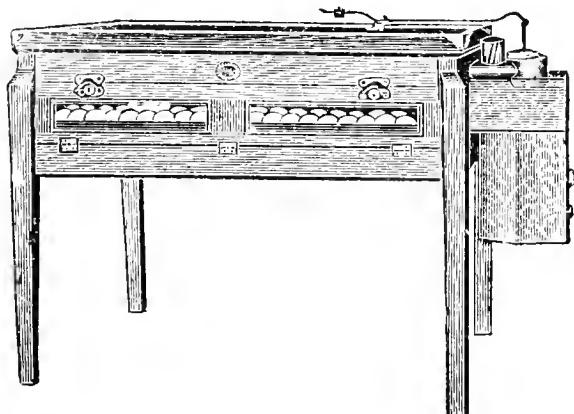
Each Scale is sealed to U. S. Standard weights, and is carefully packed.

No.	Capacity	Price
1128	500 lbs. ....	\$22.00
1124	1000 lbs. ....	25.00



## MOE'S INCUBATORS

## HATCH VIGOROUS, HEALTHY CHICKS

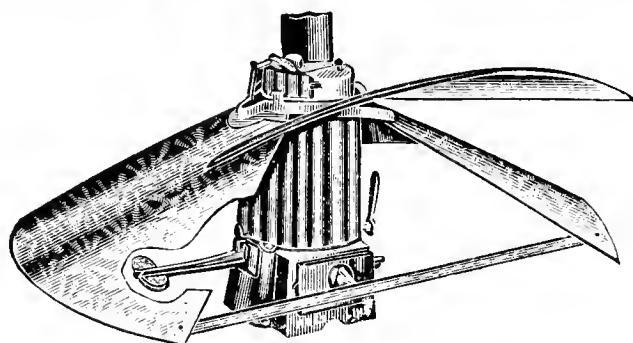


Moe's Incubators are practical, reliable and efficient machines, which embody all of the correct principles of hatching and produce chicks of high vitality with a minimum of labor and expense.

Moe's Incubators have solid copper tank and heating coils, with double locked and soldered seams. The water is heated in the copper tank above the lamp, and then circulates through the coils, producing a soft, even, uniform heat of the correct temperature in every part of the incubator.

No.	Capacity	Price
165	85 Eggs	\$17.75
167	150 Eggs	19.50
168	300 Eggs	25.00
170	450 Eggs	33.00
172	600 Eggs	49.85

## MOE'S DOUBLE DRAFT BROODER STOVE



**Moe's Coal Burning Colony Brooder** is a thoroughly reliable, highly efficient and practical brooder or hover. Provides an even, continuous and correct temperature at all times. Gives the chickens an abundance of pure fresh air, with ample room for them to get sufficient exercise.

It has the latest improved Double Draft check dampers, and is self-regulating and requires but little attention.

The Stove has a large deep corrugated fire pot, and burns most any kind of fuel, but we recommend hard coal in chestnut size. The Fire Bowl is of heavy cast iron and is wider at the base than at the top, allowing the fuel to feed freely without danger of clogging, and insuring an even, well distributed fire. The Corrugated design greatly increases the amount of heat radiated.

The No. 112 Stove has a capacity of 23 pounds, No. 113 of 34 pounds, and No. 116 of 50 pounds of hard coal.

The Grate is in two sections, rocker type, center dump, making it easy to keep a clean, bright fire at all times.

The Ash Pit is large and easy of access. The bottom of the ash pit is raised from the floor and further protected with a pad of asbestos.

**Automatic Control.** The fire is automatically regulated by twin thermostats which open and close both the draft and check dampers. Easily adjusted to any desired degree of heat, and after adjustment at the beginning of the season needs no further attention.

**The Canopy** is of heavy galvanized steel, completely assembled, and mounted on a cast collar, with a wide door or panel, hinged at the top, giving easy access to any part of the stove.

Time-tried and tested and guaranteed to give perfect satisfaction.

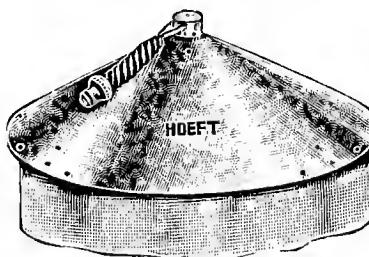
No.	Diameter of Hover	Capacity Chicks	Diam. of Fire Pot	Shipping Wt. with Hover	Pipe Size	Price Complete
112	42 in.	500	10 in.	80 lbs.	4 in.	\$13.30
113	52 in.	1000	11 in.	100 lbs.	5 in.	16.25
116	56 in.	1200	13 in.	132 lbs.	5 in.	19.75



**"BROODRITE" OIL BURNING BROODER** Economical, safe and highly efficient, with a wide range of adjustment from a low flame to a powerful hot blast, automatically controlled. It burns low-priced No. 1 furnace oil (distillate 38-40°) or kerosene in a new marvelous burner, with a hot, clean flame and a minimum of carbon and soot. Each "Broodrite" Brooder is complete with canopy, a heavy galvanized 10-gallon fuel tank on a substantial steel stand 26 inches high, brass strainer and shut-off valve, 6 feet of copper tubing from tank to regulator, iron pipe from burner to regulator, 2 feet of iron overflow pipe, 5-inch galvanized tee and adjustable draft regulator. Use 5-inch pipe. Directions with each Brooder.

Diam. Canopy	Day Old Chick Capacity	Recom- mended Capacity	Weight	Price
No. 238 .....	54 in. 1000	500	78	\$19.95
No. 239 .....	63 in. 1250	750	85	21.95

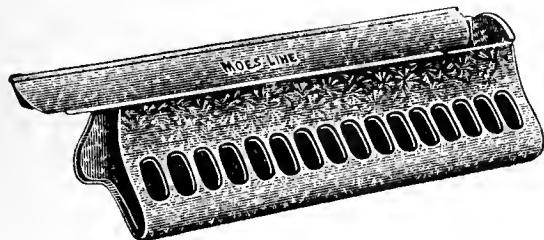
## MOE'S ELECTRIC BROODER



**No. 385 Electric Brooder** complete with heating element. An economical and practical brooder for up to 75-day old chicks. The galvanized steel canopy is 19 inches in diameter, mounted on steel legs and complete with double canvas curtain.

Complete with rubber covered cord and attachment for an ordinary light socket. Price \$2.25.

## MOE'S ONE FORTY FEEDER



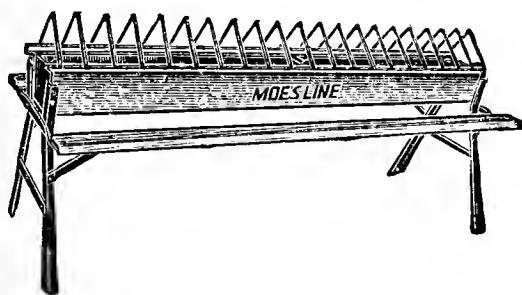
The finest feeder made to care for both large and small flocks. A wonderful feeder for young growing stock, and a great time and labor saver when chicks are raised in large numbers. Made of heavy galvanized steel with a large capacity.

Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or sides to foul the feed.

**No. 140**—Feeder, capacity 10 quarts, length 21 inches, width 8½ inches, height 7 inches. 16 openings on each side, so that 32 chicks can feed at one time. Shipping weight 4 pounds. Each, 80c.

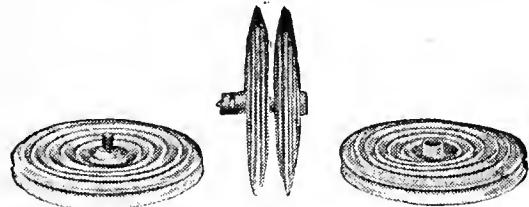
**No. 141**—The same style and construction as our No. 140, but much longer and with a larger capacity. Made of heavy galvanized steel, with sliding top cover, easy to fill and clean. Feeder, capacity 17 quarts, length 35 inches, width 8½ inches, height 7 inches. 27 openings on each side, so that 54 chicks can feed at one time. Packed one in a carton. Shipping weight 8 pounds each. Each \$1.25.

## MOE'S WIRE GUARD FIVE FOOT FEEDER



**No. 355**—The trough is made of extra heavy galvanized steel and holds 32 quarts of feed. It is five feet long, 8 inches wide and 5 inches deep. Has wide turned-in flanges on each side to prevent waste of feed. The wire guards are of heavy No. 7 hard galvanized wire, correctly spaced and electrically welded. Hinged in one unit, so the entire guard can be thrown back for filling and cleaning. **REMOVABLE TROUGH**—The trough rests securely on the stand, but is not bolted down and can be easily lifted off to dump and clean it, which is a highly desirable feature. The stand has strong angle iron legs, well braced, complete with stout wooden perches. Total height on stand 27 inches. Height of perches 17 inches. Complete with stand and wire guards. Price \$4.75.

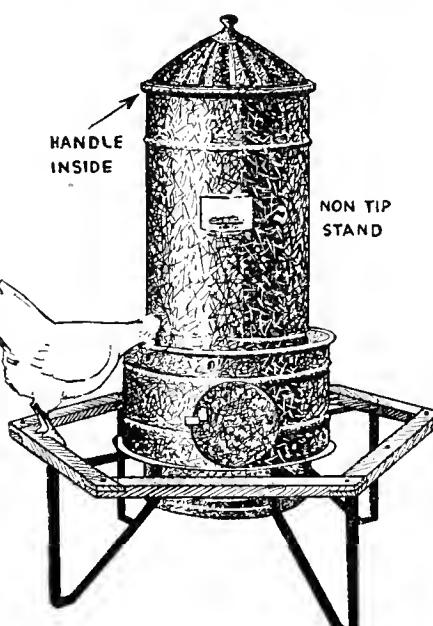
## DOUBLE UNIT WAFER THERMOSTATS



Made of special tempered brass, vacuum filled, sensitive, accurate and durable, and begin to function at about 85 degrees Fahrenheit. The double units have a solid post between them, making each wafer independent of the other, so if one wafer should become injured the other would continue to function. Intended for oil burning or coal burning brooders, also incubators.

**No. 297**—3 inches..... 25c Each  
**No. 298**—4 inches..... 40c Each  
**No. 299**—5 inches..... 50c Each

## "BEST OF ALL" FLOAT FOUNTAIN



**"BEACON-BILT" FOR SERVICE**  
 Like the Popular W-14 Except Larger. Equipped with the "Best - of - All" valve. Closes completely when fountain is carried. Water starts flowing automatically. No catches to unlatch, no trouble. Float shuts water off at correct level. We repeat "Shuts Off." An all-brass float, and screen which unscrews for easy cleaning. 8-gallon capacity with heavy "Beacon-Bilt" pan, non-roost top.

Heaters keep water at correct temperature and produce eggs when prices are high. Built to fit all make fountains.

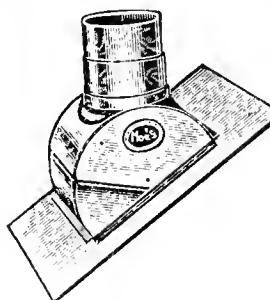
## HEATERS

Electric, well insulated for economy. Has socket cord and plug; bulb not furnished. Oil heater has large lamp holding 4 quarts, 3 weeks supply. Latest chimneyless burner. Low operation cost.

## Capacity

	Price
Model W-15—Fountain only, 8 gal.	\$3.25 each
Model W-8H—Electric Heater for W-14 or W-15.	1.50 each
Model W-9H—Oil Heater for W-14 or W-15.	1.75 each
Model S-24—Stand only for W-15.	1.60 each
Model W-15H—Comp. with Oil Heater.	4.90 each
Model W-15HS—Oil Heater and Stand.	6.35 each

## MOE'S ADJUSTABLE ROOF SADDLE



A storm and rain proof cap or saddle, and easily installed. Made of heavy galvanized sheet steel, with 14 x 18 inch flat roof flange or plate. Two sizes, 4 inch and 5 inch.

**No. 440**—For 4-inch pipe..... \$1.35

**No. 441**—For 5-inch pipe..... 1.45



## SMOKE PIPE TOP CAP

Chimney cap for brooder stove pipe. Made of galvanized steel to slip on the top of regular pipe. Keeps out rain and snow, and improves the draft. Easy to install, no tools or bolts required. In two sizes.

**No. 444**—For 4-inch pipe..... 30c

**No. 445**—For 5-inch pipe..... 35c

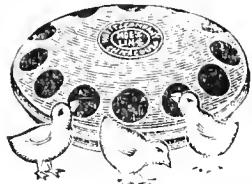


## BROODER AND INCUBATOR THERMOMETERS

**No. 127**—Brooder Thermometer with black lithographed metal scale 4½ inches long. White figures and graduating. Red liquid tube, easy to read. Scale range 30 to 120 degrees Fahrenheit. Price 40c each.

**TYCOS INCUBATOR THERMOMETERS**—White figures on a black background. Price 75c each.

## MOE'S ROUND BABY CHICK FEEDERS

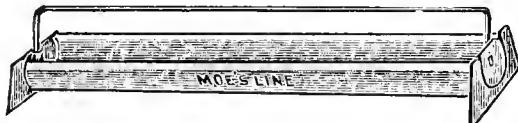


Made of best quality tight coated galvanized steel, die stamped, with smooth round feeder holes. The top fits snugly on the pan, but can be easily lifted off for cleaning and filling. Made in two sizes.

## Price:

No. 11—Diameter 6 inches with 8 feeder holes..... 10c  
No. 12—Diameter 8½ inches with 12 feeder holes..... 15c

## MOE'S DIXIE CHICK FEEDERS



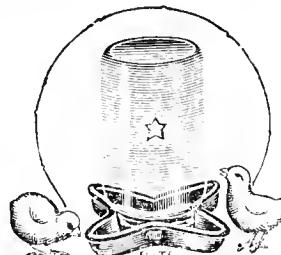
Made of best quality galvanized steel, accurately stamped with dies. The round troughs are easily filled and cleaned, and have a turned in flange to prevent waste of feed. Width of trough 3 inches, fitted with heavy wire top guard to keep the chicks out of the feeder, and this guard is adjustable so it can be raised as the chicks grow.

## Price:

No. 460—Length 18 inches..... 20c Each  
No. 462—Length 30 inches..... 30c Each

## MOE'S STAR FOUNTAIN

Quickly screwed to a Mason jar and provides a greater drinking surface than the ordinary round fountains. Convenient, practical, durable and low in price. Can be used for chick feed as well as water. Made in one size and will fit 1-pint, 1-quart, and 2-quart jars. (We do not furnish glass jars.) Price 10c each, 3 for 25c.

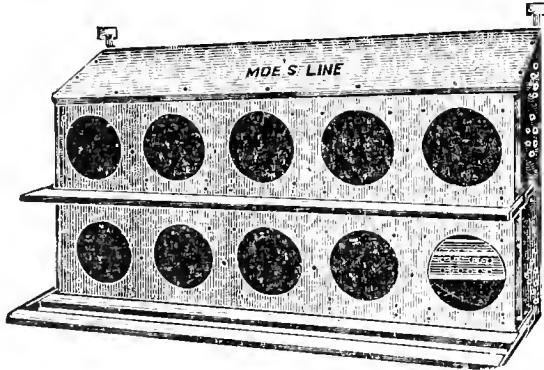


## ROUND MASON JAR FOUNTAIN



Made of heavy rust resisting metal. Diameter 6 inches. Made only in one size, but will fit Mason jar in sizes 1 pint, 1 quart and 2 quarts. (We do not furnish the glass jars.) 10c each, 3 for 25c.

## MOE'S ALL-METAL NESTS

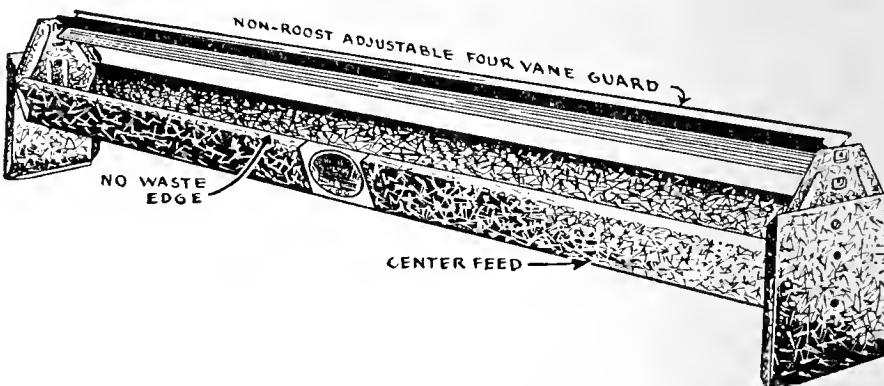


Moe's All-Metal Nests are made of heavy galvanized steel with stout wood perch bars. These nests are easily kept clean, dry and free from mites and vermin. A pitched roof prevents roosting on top and the wood bars are hinged so they can be folded up to close the doors. Furnished with either open back or sheet metal back.

No. 510 5 Hole Nest Open Back Weight 28 lbs. Each \$5.25  
No. 511 5 Hole Nest Closed Back Weight 32 lbs. Each 6.00  
No. 512 10 Hole Nest Open Back Weight 49 lbs. Each 9.00  
No. 513 10 Hole Nest Closed Back Weight 58 lbs. Each 10.50  
No. 514 15 Hole Nest Open Back Weight 70 lbs. Each 13.00  
No. 515 15 Hole Nest Closed Back Weight 84 lbs. Each 15.40

Trap Fronts (as shown in the lower right hand nest door), each 30c extra.

## "BEST OF ALL" BEACON FEEDER



6 and 8 feet of feeding space. 4½ inches wide center feed. Non-waste. 4 vane metal reel. Adjustable non-breakable reel holders with adjustable ends. Remember, there isn't anything better than the "Best," no matter at what price.

Model	Length	Price
F-6	36 inches	68c
F-7	48 inches	80c

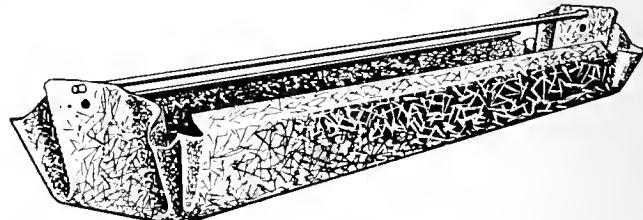
## ALL-PURPOSE FLOAT FOUNTAIN



Equipped with the famous Beacon "Best of All" valve, these fountains have reduced labor costs for hundreds of poultry raisers. The valve is all brass and double acting, no adjustments. W-13 specially adapted for baby chicks.

Model	Capacity	Price
The Beacon-bilt W-13	10 Qts.	\$1.50

## THE BEACON FEEDER



The best and largest feeder for the money. A galvanized one-piece die-drawn pan with a single adjustable wire guard. Can be used for either feed or water. Square bottom with tapered sides for center feed.

Model	Length	Price
F-0	12 inches	15c
F-1	18 inches	20c
F-2	28 inches	25c

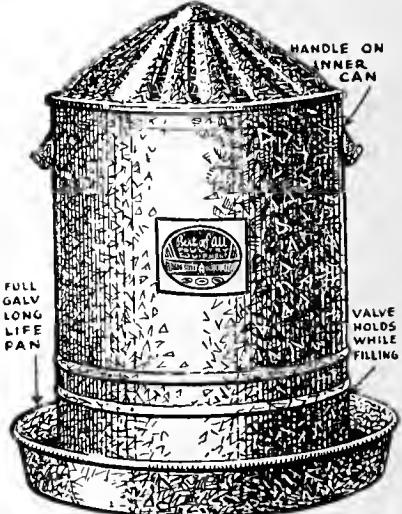
## TOP FILL FOUNTAIN (Double Wall)

New non-roost top—convenient handles—improved valve. A new leader in the BEACON line. Special built pan with full thickness of galvanizing where protective coating of zinc is needed most.

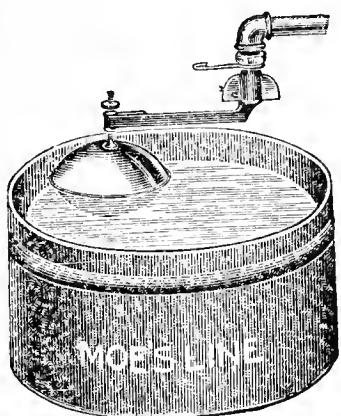
It is a vacuum fountain and the operation is the same as others—it is only in the material and workmanship this fountain is different.

Fountains have sure-hold valve to retain water while tank is being filled. Inside handle for easy carrying. 44 inches drinking space. On W-25, W-28. Model Capacity Price  
W-23 3 gal. \$1.65 ea.  
W-25 5 gal. 2.25 ea.  
W-28 8 gal. 3.40 ea.

S-24 Stand and W-8 or W-9 Heaters can be used with W-25 and W-28 Fountains.



## MOE'S AUTOMATIC POULTRY FOUNTAIN



A perfect automatic valve and float, to regulate the flow of water to a drinking dish. The valve mechanism is entirely of brass, nickel finish, with nothing about it to rust or clog up. Positive in action. Can be attached to any iron water pipe or to a barrel or tank, and insures a continuous, automatic flow of water, without waste. Valve is threaded for  $\frac{1}{4}$ -inch iron pipe. The wire holds the float up while pan is being cleaned or removed.

Price:

No. 30—Automatic valve and float only ..... .85

Drinking pan or dish not included.

## MOE'S LEADER CHICK FEEDER

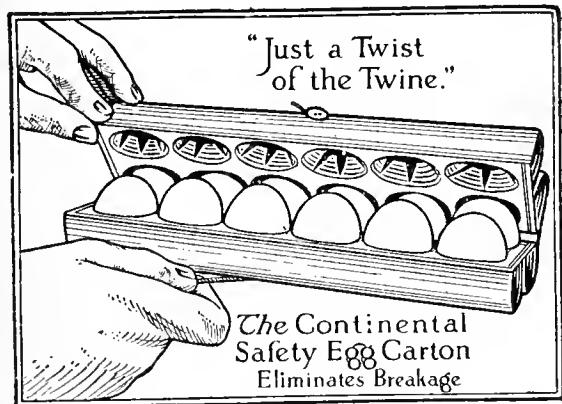


Made of prime galvanized steel, accurately die stamped. The pan and top are each made of a single piece of metal, no seams or solder used. Sliding top easy to fill and clean. A very satisfactory low priced feeder. Width of trough  $4\frac{1}{2}$  inches at top.

Prices:

No. 520—Length 13 inches, 16 holes ..... 10c Each

No. 521—Length 23 inches, 32 holes ..... 20c Each



Eliminate breakage and save your profit. You can do this if you will pack your eggs in the Continental Safety Egg Carton. Place your eggs, give a "Twist of the Twine," and the trick is done. Used extensively by poultrymen all over the country.

Price:

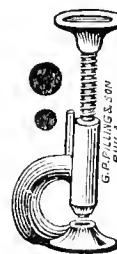
Dozen	Hundred	Per case of 250	Per thousand
25c	\$1.60	\$3.25	\$12.50

Mailing weight about 2 pounds to dozen.

## FRENCH POULTRY KILLING KNIFE



Made of finely tempered instrument steel, with nickel handle; will last a life-time. Price 50c, postpaid.



## THE PHILADELPHIA POULTRY MARKER

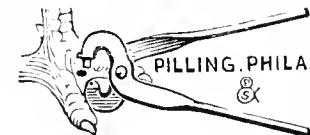
Well made, with steel spring and cutter nickel-plated. Made in two sizes.

Price 25c, postpaid.

## PILLING LANSDOWNE POULTRY MARKER

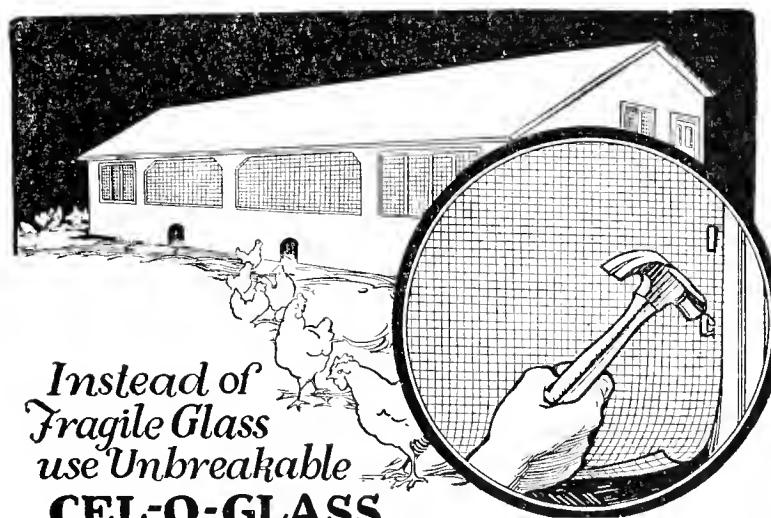
Look at illustration and see how easy it is to use. Large or small size.

25c postpaid



## PHILADELPHIA CAPE WORM EXTRACTOR

Price 25c, postpaid



*Instead of  
Fragile Glass  
use Unbreakable  
CEL-O-GLASS*

## THE NEW UNBREAKABLE GLASS

It is the most economical and practical glazing material on the market. It replaces ordinary, fragile—costly glass for nearly every purpose. It is made of coarse mesh galvanized wire cloth, treated in such a manner that the spaces between the strands are filled with a clear, translucent flexible substance that will not rub off, peel or become brittle. It is not affected by weather conditions. 36 inches wide, 40c per running foot.



## CELLULOID LEG BANDS

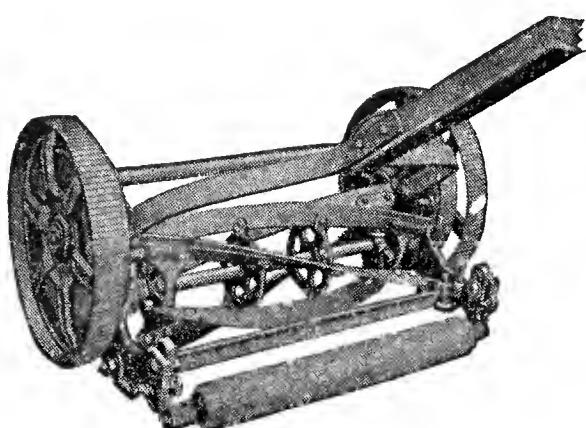
Made of celluloid, in fast colors. Sizes for large and small poultry, baby chick and pigeon.

12 . . . 15c 50 . . . 50c 100 . . . 75c

## PORCELAIN NEST EGGS

The hen persuader. Persuades her to use the same nest, persuades her to lay more eggs; in fact the eggs are so natural, she feels perfectly at home setting on them. Price, 30c per dozen, by parcel post 40c per dozen.

## THE COLDWELL LAWN MOWERS



Imperial

## IMPERIAL HIGH WHEEL ROLLER BEARING

The New Imperial Roller Bearing Mower is equipped with Timken tapered roller bearings. Has ten and a half inch drive wheels and the gear ratio has been increased so as to give it higher frequency. Easily adjusted. Five blades. Roller bearings enclosed in dust-proof housings. The best mower on the market for hard service.

16-inch.....\$16.00 18-inch.....\$18.00 20-inch.....\$20.00

## AMBASSADOR

The drive wheels are 10 inches in diameter, with the gears raised up from the ground, fully protected from the dirt and cut grass. The revolving cutter is 6 inches in diameter and has 5 crucible steel blades highly tempered and ground true their entire length. It is carried on our patented adjustable ball bearings.

14-inch.....\$12.00 16-inch.....\$13.00 18-inch.....\$14.00

## HOLLYWOOD

This is a first class, low wheel, machine equipped with ball bearings. A very light weight easy running mower.  
4 blades—8-inch wheel.

14-inch.....\$6.00 16-inch.....\$6.35

## METROPOLITAN 10-inch Wheel

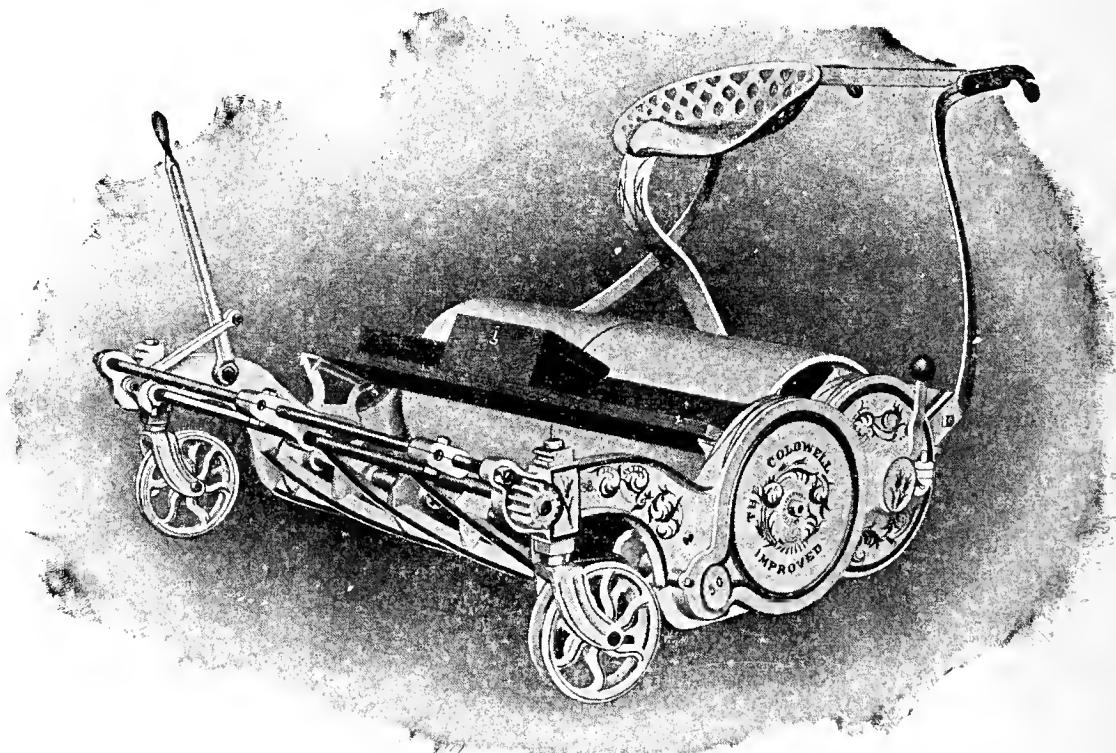
A light, durable mower guaranteed to give excellent satisfaction and priced to meet the demand for a cheap lawn mower for small gardens—5 blades.

16-inch.....\$7.50 18-inch.....\$8.25

## COLDWELL'S IMPROVED HORSE LAWN MOWER

Some of its points of merit are: Light draft, large driving rollers, non-clogging caster wheels; can be thrown out of gear without driver leaving seat; both sides of machine can be adjusted at once; device for instantly raising all knives from the ground when passing over stones or other obstructions, or when drawing over a roadway; side-draft attachment to prevent horse from walking on grass before it is cut.

35-inch, complete with seat and shafts .....\$175.00



## THE COLDWELL CUB POWER LAWN MOWER

The Coldwell Cub is a light, substantially built power lawn mower with a 21-inch detachable front cutting unit and a full width drive roller. Separate clutches control the cutting unit and the traction roller. The clutch levers are conveniently located on the handle and can be engaged or disengaged with one finger. The drive roller is divided and is driven through a differential so that sharp turns can be made without marking the lawn.

The engine and transmission are mounted on a steel frame in a perfectly accessible position and located so the mower is in lateral balance. The engine has been specially designed for this mower.

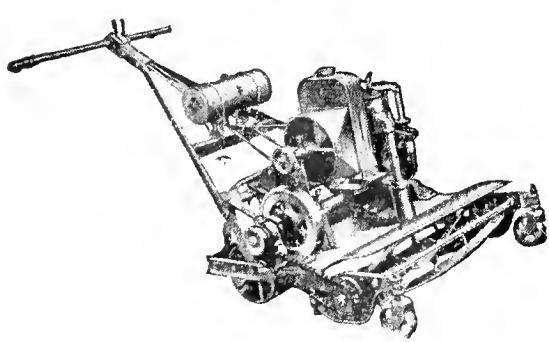
The front cutting unit makes it possible to cut close to trees or walls so that a finished job can be done without the use of a hand mower.

In this machine we realize our ideal of a light, strong, easily handled mower, so simple that an inexperienced man can understand and operate it. It is made light and strong by using steel and malleable iron where best adapted. Flexibility in maneuvering is obtained by proper distribution of weight and mounting on a large drive roller and casters.

Price \$195.00.

Horse and Hand Lawn Mowers Sharpened and Repaired in a Thorough and Satisfactory Manner

*Quality Our Watchword*



## THE FAMOUS ECLIPSE LAWN MOWER

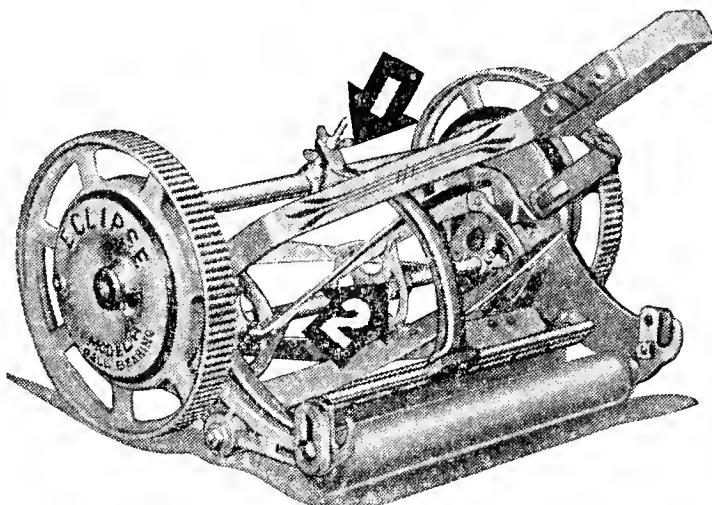
Saves yearly sharpening and adjusting expense. The only mower sharpened right on the lawn and adjusted accurately without tools or tinkering.

### A Precision-Built Mower For Those Who Demand the Best

WHEELS—10" Closed Type. BEARINGS—Patented Super-Easy Running, Wear-Proof Precision. Adjustable Bearing. Run in oil wells providing continuous lubrication. BLADES—Heat-Treated Tool Steel. FINISH—The most beautiful mower made . . . aluminum filler assures resistance to rust and keeps mower looking new for years. ROLLERS and HANDLES—Highest quality, finished with double coats of best marine varnish.

#### ECLIPSE PRICES

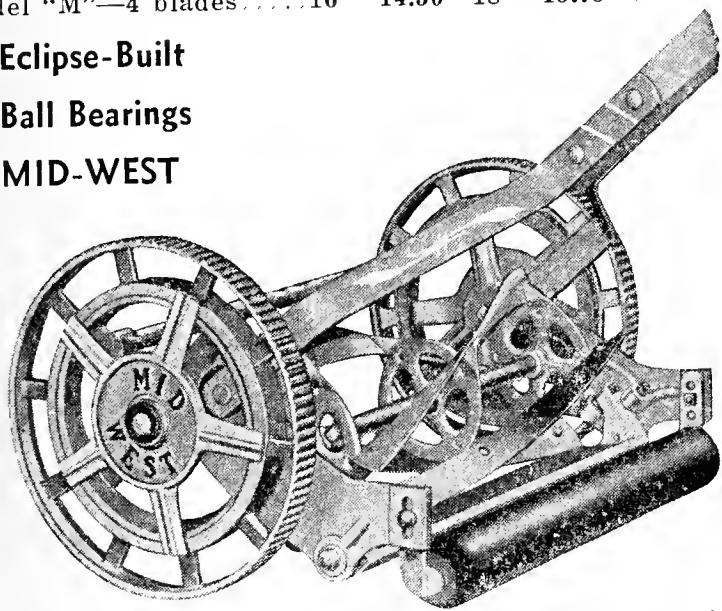
Model "A"—5 blades . . . . .	16"	\$23.50	18"	\$25.00	20"	\$26.50
Model "L"—5 blades . . . . .	16"	16.50	18"	18.00	20"	19.25
Model "M"—4 blades . . . . .	16"	14.50	18"	15.75	20"	17.25



#### Eclipse-Built

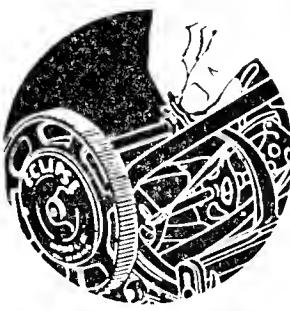
#### Ball Bearings

#### MID-WEST



An outstanding Lawn Mower value—easy running—smooth cutting. WHEELS—10" skeleton type. BEARINGS—Ball bearings hardened and ground cup and cone, doubly protected, full ball race. BLADES—Special tool steel, heat-treated reel blades—precision ground. Spring steel cutter bar blade. GEARS—Double internal protected gears—hardened steel pawls.

Rio Grande—5 blades . . . . . 14" \$6.00 16" \$6.25 18" \$6.60  
Mid West—4 blades . . . . . 14" 5.65 16" 5.95 18" 6.35



**1** The Eclipse is always in perfect adjustment — no tinkering — no expense.

**2** The Eclipse is always sharp. No expense — no attachments — no disassembly.

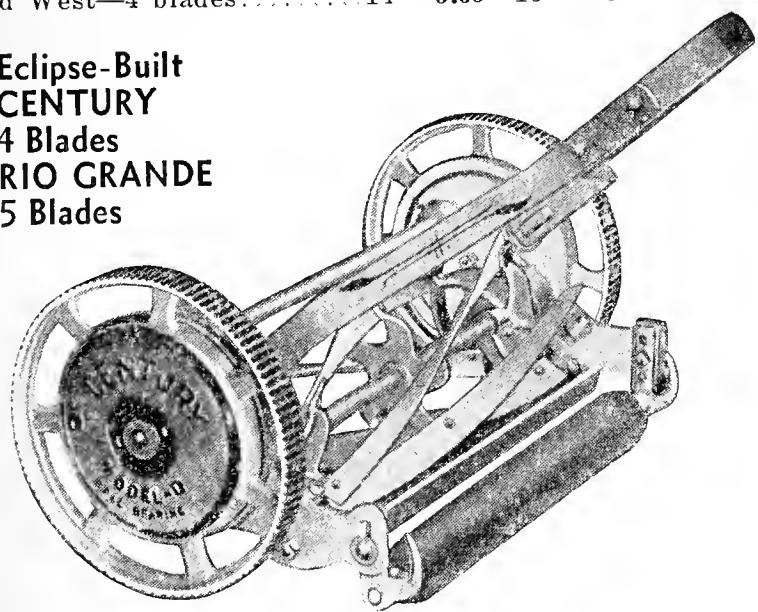
#### Eclipse-Built

#### CENTURY

#### 4 Blades

#### RIO GRANDE

#### 5 Blades



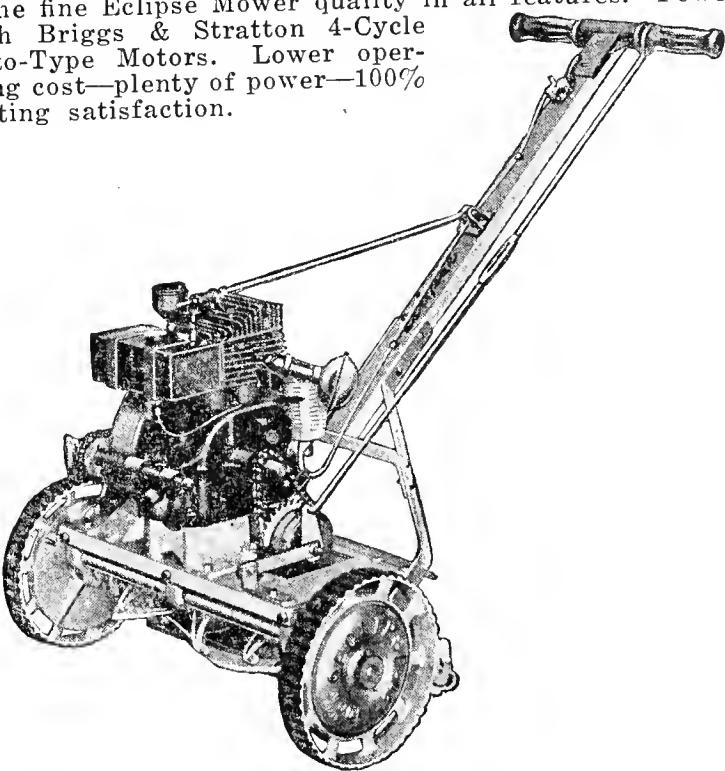
#### Eclipse-Built ARLINGTON 5-Blade

#### CENTURY 4-Blade

Exceptionally well-built Mowers at reasonable prices. Easy running—serviceable. WHEELS—10", closed type with 2 1/4" hubs. BALL BEARINGS—Full ball races, dust-proof—no springs or lock washers.

BLADES—Tool steel, heat treated, precision ground. LUBRICATION—Spring top oil cups. BAR ADJUSTMENT—Four screws, fine adjustment. HANDLES and ROLLER—Best hardwood.

Arlington—5 blades . . . . . 14" \$9.75 16" \$10.50 18" \$11.25  
Century—4 blades . . . . . 14" 8.50 16" 9.00 18" 9.75



**3 MODELS**—Model 25—Heavy duty, for largest areas and continuous service. Price \$225.00. 25" cut.

Model 21—Cemetery Special—a great favorite in parks, cemeteries and on estates. Price \$170.00. 21" cut.

Model 20—Little Giant—a power mower of best Eclipse quality. A big value. Price \$142.00. 20" cut.

## PLANET JR. HAND WHEEL HOES AND GARDEN PLOWS

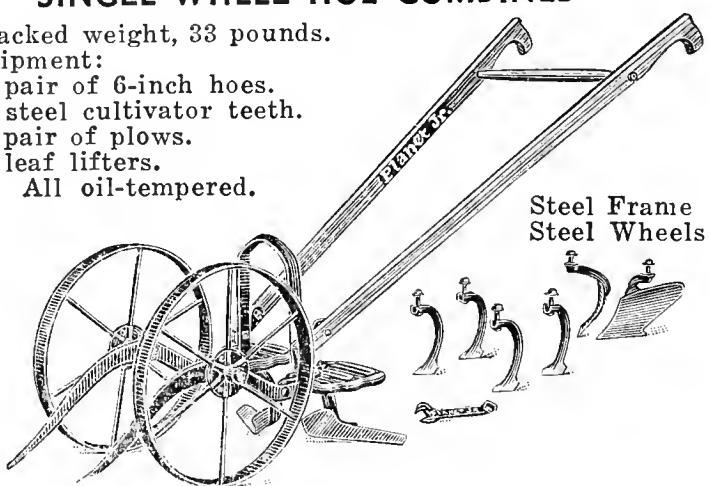
### No. 12 PLANET JR. DOUBLE AND SINGLE-WHEEL HOE COMBINED

Packed weight, 33 pounds.

Equipment:

- 1 pair of 6-inch hoes.
- 4 steel cultivator teeth.
- 1 pair of plows.
- 2 leaf lifters.

All oil-tempered.

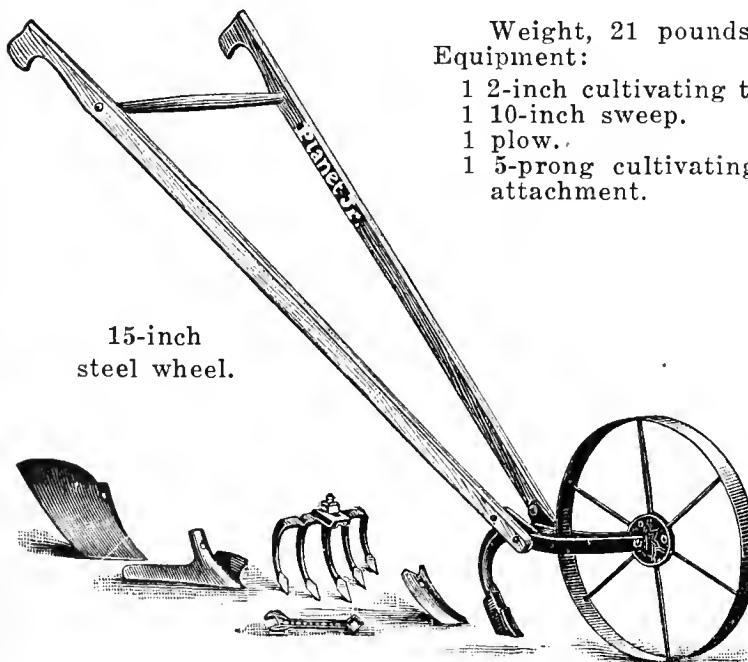


The No. 12 is the most popular Double-Wheel Hoe. It can be used by man, woman or boy. It is identical with No. 11, except that the 4½-inch hoes and the rakes are omitted from the equipment, and it is sold at a correspondingly less price. The attachments with it are what gardeners use most, and the short hoes, rakes and any of the attachments can be added at any time. You'll be astonished how easy it is to save time, labor, money and get bigger crops if you use it. Price \$10.50.

No. 11.—The same as above except that it has one pair 4½-inch hoes, two 3-tooth rakes and two 5-tooth rakes, in addition. Price \$13.25.

No. 13.—Is constructed the same as the No. 12 (shown above) but has for the equipment one pair 6-inch hoes only. Price \$7.90.

### No. 19 PLANET JR. GARDEN PLOW AND CULTIVATOR



No. 19.—This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations. The standard is slotted for depth regulation, and an adjustable piece carries any of the attachments that go with the machine. The cultivating tooth does deep work and marks out rows for onion sets, plants, etc. The sweep is fine for level shallow work. The five-prong cultivator attachment is bolted directly to the frame, first removing the S-37 standard. The plow marks out furrows, covers them and plows to or from the crop as wanted; opens furrows for fertilizer, peas, beans, etc. Use the five-prong attachment for deep and shallow cultivation. It will break up the ground and leave a mulch so necessary to preserve the moisture in the soil. The variety, shape and quality of the tools make the implement light-running and effective. It is strong, well made and quickly adjusted. The height of the handles can be changed to suit man or woman, boy or girl. Price \$4.75.

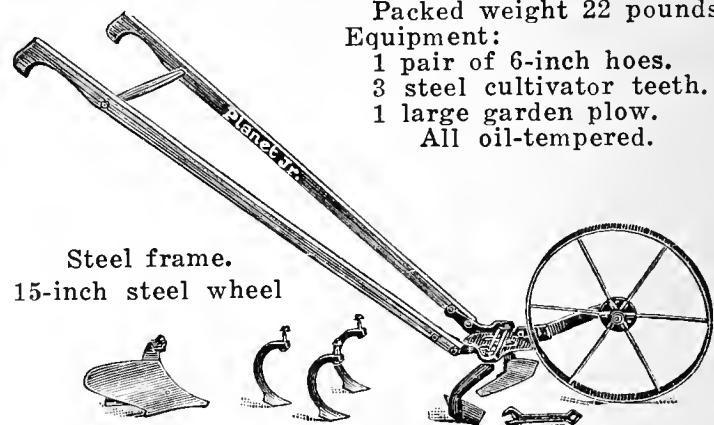
### No. 17 PLANET JR. SINGLE-WHEEL HOE

Packed weight 22 pounds.

Equipment:

- 1 pair of 6-inch hoes.
- 3 steel cultivator teeth.
- 1 large garden plow.

All oil-tempered.



No. 17 is identical with No. 16, except in equipment, and all that has been said previously regarding Planet Jr. Wheel Hoes is equally true of No. 17. The three sets of attachments which go with it are all the finest of their kind, and make an outfit sufficient for most garden work. You can do more and better work with it in one day than you can do in several days with the old-fashioned hand hoe. The hoes exchange sides to work to or from the row, and change of wheel regulated the depth. The hoes are constantly useful throughout the season. The cultivating teeth are oil-tempered and work admirably, are changeable for pitch and are useful for marking out rows. Price \$7.50.

No. 16.—The same as above except in equipment, which includes one pair 6-inch hoes. Three cultivator teeth. One large garden plow. One 7-inch rake. One 4-inch rake. One leaf guard. Price \$8.50.

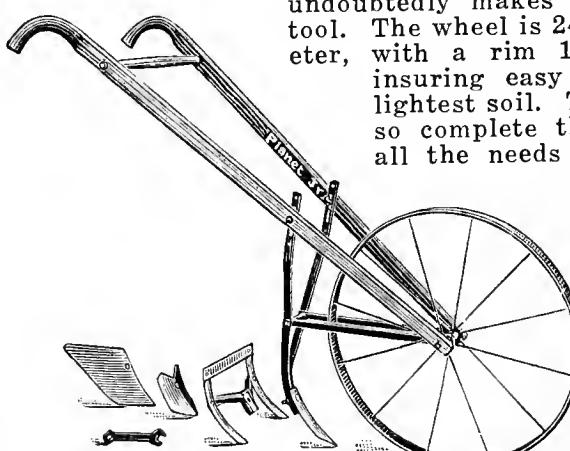
No. 17½.—Same as the No. 17—but without the plow. Price \$6.50.

No. 18.—Same as the No. 17—but equipment consists of one pair of 6-inch hoes only. Price \$5.50.

### No. 119 PLANET JR. GARDEN PLOW AND CULTIVATOR

This new member of the "Planet Jr." family will appeal to all those who prefer a high-wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared, the high wheel undoubtedly makes an easy-running tool. The wheel is 24 inches in diameter, with a rim 1½ inches wide, insuring easy running in the lightest soil. The equipment is so complete that it will meet all the needs of the ordinary garden where the adjustments and refinements of the higher-priced wheel hoes are not required.

Price \$3.75.



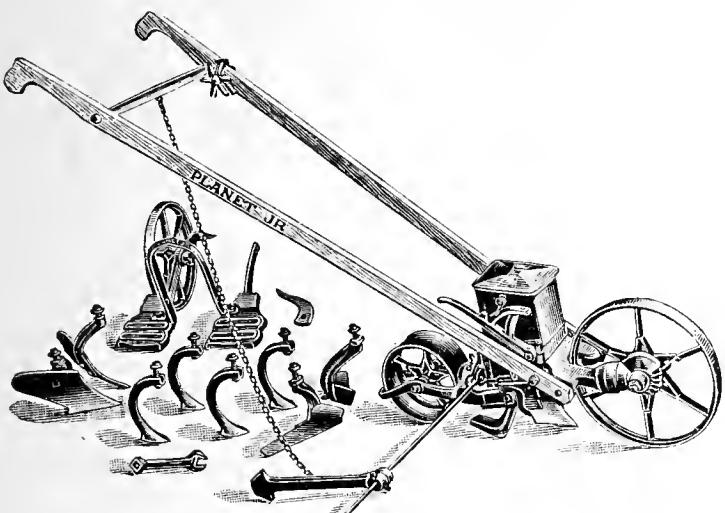
No. 119W.—Is the same as the No. 119 except that it has a fine prong forged spring steel cultivator attachment instead of the reversible scuffle blade. This attachment can be used on any other Planet Jr. Wheel Hoe. Price \$4.00.

### FIRE-FLY GARDEN PLOW

This tool is exceedingly useful to owners of small gardens. It will throw a furrow 4 to 6 inches deep, and deeper by going a second time in each furrow. It makes fine furrows for manure or seeds and covers them, and makes up rows for all kinds of plant setting. In cultivating, plow away, weed the row and plow back again; nothing more thorough than this. After the furrow is thrown away from the crop lightly, leave it a few days before throwing back. Price \$4.00.

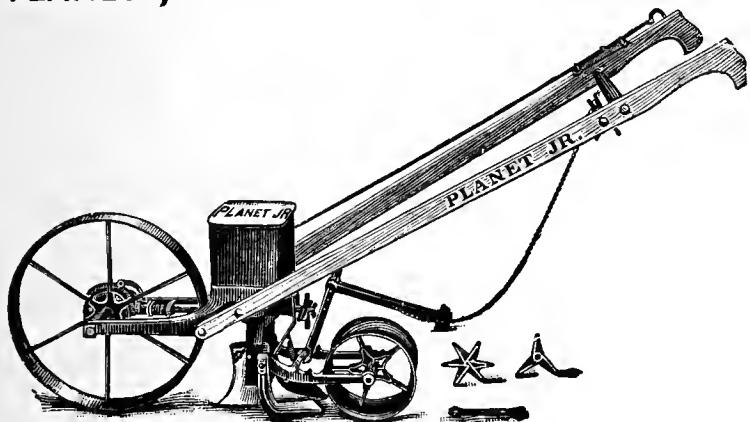


**No. 25 PLANET JR. COMBINED HILL AND DRILL SEEDER, DOUBLE-WHEEL HOE, CULTIVATOR AND PLOW**



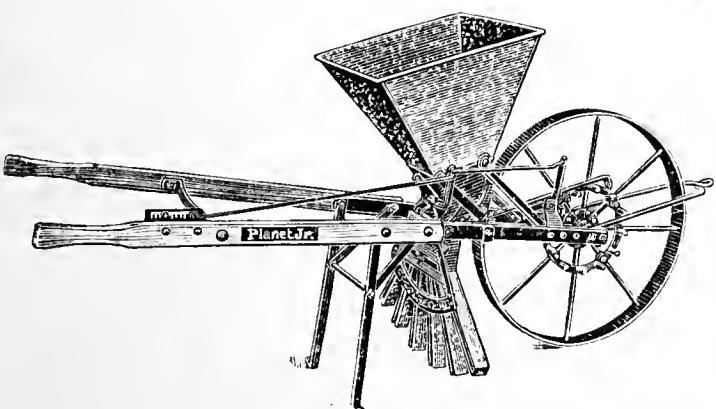
This new combined machine is intended for gardeners who have sufficient acreage in crops for a double-wheel hoe to be used to good advantage and do not want to buy separate machines. It can be used as a drill and is almost identical with the "Planet Jr." No. 4. It is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. It has 11 1/4-inch wheels, and the hopper holds 2 1/2 quarts. As a wheel hoe it is identical with the "Planet Jr." No. 12 Double-Wheel Hoe, the very best machine on the market. It takes but a moment to change from drill to wheel hoe, and the whole combination is one that we can heartily recommend and guarantee to be satisfactory. Price \$21.50.

**PLANET JR. No. 3 HILL AND DRILL SEEDER**

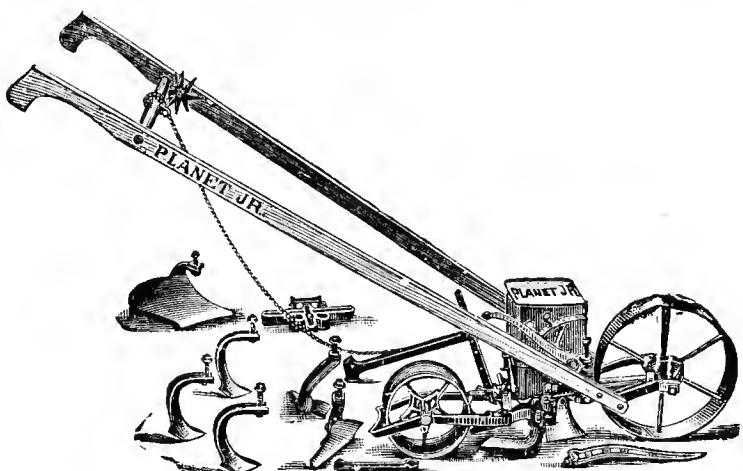


This Seeder is the latest and most perfect development of the hand seed drill. It sows evenly in drills and also drops in hills 4, 6, 8, 12 or 24 inches apart. It is thrown out of gear instantly by moving a convenient lever or the flow of seed is stopped by pushing down the feed rod. No time is lost, no seed is wasted; it is quickly set to sow the different kinds of seeds in the exact quantity required. We guarantee this drill to be accurate and to give satisfaction. The accuracy insures a regular stand of plants with the least seed, and the price of the drill is more than made up in the saving of seed. Holds 3 quarts.

Price \$17.50



**No. 5 PLANET JR. HILL AND DRILL SEEDER**

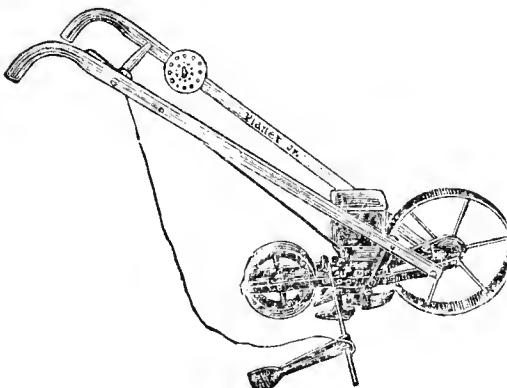


This drill is identical in construction with the No. 3, but is larger. The hopper holds 5 quarts. It works very light and is intended for those having a great deal of planting to do. Price \$18.75.

**PLANET JR. No. 4 COMBINED SEED DRILL, SINGLE-WHEEL HOE, CULTIVATOR AND PLOW**

This is the most popular combined tool made. It combines in a single implement a first-class hill-dropping seeder, a single-wheel hoe or weeder, a cultivator and a plow. The hopper holds 2 1/2 quarts of seed, which can be sown in continuous rows or dropped in hills at 4, 6, 8, 12 or 24 inches apart. Capacity of hopper, 2 1/2 quarts. The drill is detached and the tool frame substituted by removing but one bolt. With this one implement the small farmer can do practically all the work in small crops. Price, complete ..... \$17.50  
No. 4-D Plain Seeder ..... 13.75

No. 300.—This is the ideal machine for the farmer and commercial vegetable grower. It will plant any vegetable seed from the smallest up to the bush lima beans. There are three plates with a total of 39 holes, giving ample adjustments for any variety of seed. You can change from one hole to another in five seconds, and from one plate to another in thirty-five. Capacity of hopper 4 quarts. Front wheel 15 inches in diameter, 2 1/2-inch tread. Rear wheel 11 1/4 inches in diameter, 2 1/2-inch tread. Price \$19.00.



No. 300A.—The same as No. 300 except that it has a concave rear wheel instead of the flat faced wheel.

Price \$19.00

**No. 220 PLANET JR. FERTILIZER DISTRIBUTOR**

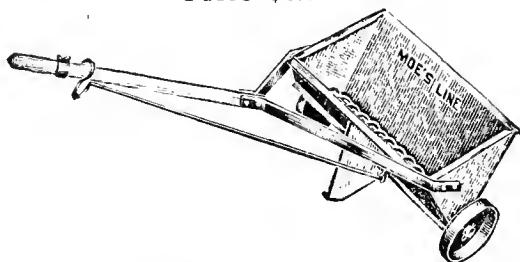
The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart. You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow in three spouts and distributing through the other three—either on the right or left hand side. It spreads fertilizer from 4 to 30 inches on the ground. The hopper capacity is one bushel and the weight of the load is placed over the wheel, making it easy to push. Will distribute 100 to 2,000 pounds of commercial fertilizer to the acre.

Price \$27.00

## MOE'S FERTILIZER DISTRIBUTORS AND GRASS SEEDERS

No. 500.—For uniformly spreading any dry pulverized commercial fertilizer, lime, ashes, bone meal or grass seed. The feed is adjustable at will by means of a convenient rod on the handle and can be shut off entirely when crossing walks and driveways. Works either way, push or pull as preferred. Can also be used for spreading salt, sand or ashes on icy walks. Easy acting spiral agitator. Quick adjustment for a light medium or heavy application. Runs very easily, no hard pushing or tugging, no clogging and spreads uniformly and in quantity desired. Hopper is of galvanized steel. Size at top 12x20 inches and 10 inches deep. Capacity about 2½ pecks of fertilizer. Substantial wood handle and steel disc wheels all attractively painted. Shipping weight 22 pounds.

Price \$6.50



No. 505 JUNIOR.—Moe's Junior Fertilizer Distributor and Seeder has been designed especially for the medium sized lawn and is a highly efficient machine at a low price. Uniform application of all kinds of commercial fertilizer and grass seeds. Makes a beautiful velvety green lawn. Quickly adjusted for a light, medium or heavy application. Heavy galvanized steel hopper. Size 16 x 9½ inches at top and 8 inches deep. Width over all 19 inches. Capacity 25 pounds of fertilizer. Shipping weight 9 pounds.

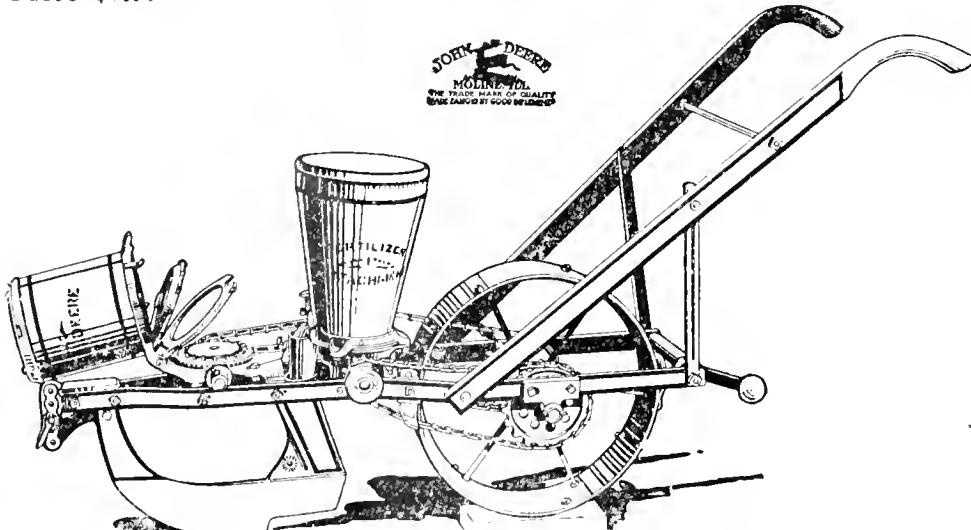
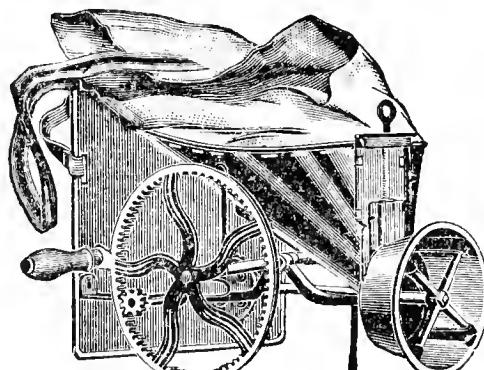
Price \$3.00

## CAHOON'S BROADCAST SEED SOWER

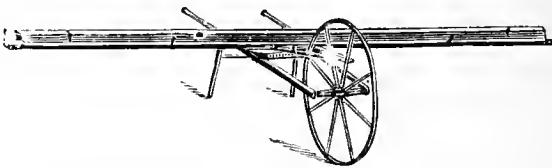
For Sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, Etc.—Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and rye, 30 to 36 feet; oats, 21 to 25 feet; barley, 27 to 33 feet; clover, millet, Hungarian seed, 20 to 24 feet; hemp, 27 to 30 feet; timothy, 15 to 18 feet.

Price \$5.00



## THOMPSON WHEELBARROW GRASS SEEDERS (FARM TYPE)



Have won first place in the grass seeder field by demonstrating that they are the most accurate and economical for sowing Clover, Timothy, Alfalfa and all other grass seeds broadcast.

They run easily and sow evenly in windy weather. The quantity is subject to control, ranging from 1 to 96 quarts per acre, sowing at the required rate per acre regardless of speed. The strong steel wheel, 32 inches in diameter, with a 1½ x ¼ inch steel tire, operates the simple mechanism, which assures uniform seeding from the full length of the hopper. Sows mixed or separate seeds equally as well and sows only when in gear.

It is substantially constructed and nicely finished. Weight of Seeder complete 50 pounds.

No. 11-D—Single Hopper Seeder. Capacity 1 to 24 quarts per acre. Sows all small seeds like Clover, Timothy and Alfalfa.

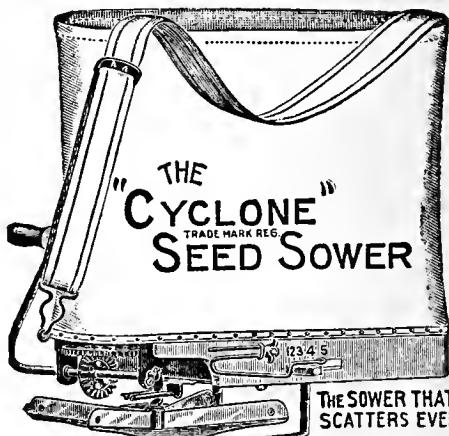
No. 12-D—Double Hopper Seeder. Capacity 1 to 96 quarts per acre. Sows all small seeds like Clover, Timothy, Alfalfa and also chaffy seeds like Red Top, Orchard Grass and Clean Blue Grass.

## Prices:

No. 11-D—Single Hopper, 14 feet long.....	\$14.00
No. 11-D—Single Hopper, 16 feet long.....	15.00
No. 12-D—Double Hopper, 14 feet long.....	17.00

## CYCLONE SEED SOWER

A seed sower any farmer can afford. The most accurate, most convenient to operate and most economical machine for sowing Clover, Timothy, Alfalfa and all other farm seeds that can be sown broadcast. It runs easily and will distribute any desired quantity of seed per acre.



Price \$2.50

THE SOWER THAT SCATTERS EVENLY

## JOHN DEERE No. 227 ONE-HORSE DRILL

Noted for its simplicity of construction, durability, ease of handling and accuracy—the four features that make an entirely satisfactory planter. It has the accurate John Deere natural-drop seed plate, the same as is used on the popular two row corn planters. Plates can be furnished for planting any kind of corn, beans, peas, sorghum and many other seeds. The hopper is the tip-over style and is made of sheet steel. It is equipped with a water tight cover. The strong steel drive wheel is practically unbreakable. The seeding mechanism is driven by a chain direct from sprocket mounted on the ground wheel axle. A spring eccentric clutch is provided for throwing planter in and out of gear. Disk or hoe marker can be furnished if desired.

## SAFETY FERTILIZER ATTACHMENT

The No. 227 Drill can be equipped with the John Deere improved safety fertilizer attachment that distributes the fertilizer in a narrow strip on each side of the row, at the same time the corn is planted. Applied in this way, the fertilizer becomes readily available as plant food, yet none of it comes in contact with the seed, which is protected by a layer of soil.

Price, Plain.....	\$21.00
Price with Fertilizer Attachment .....	28.25

## GENUINE No. 2 HAINES MARKERS

The Genuine No. 2 Haines Marker has been greatly improved for this season. Among the changes made is the disc hanger being in two parts. When the bearing becomes worn it may be replaced at small cost. The top of hanger has teeth cast all around the top, so that any angle may be had. The frame of the marker has improvements and has been strengthened. The lever and quadrant have been re-designed.

The marker is made in two sizes, for two rows and four rows. All sizes have self-oiling disc bearings.

All these improvements have been added to make the marker thoroughly up-to-date. Look the Genuine No. 2 Haines Marker over before you buy and you will make no mistake.

The marker can be regulated to open rows at any depth required by the use of the lever in front of the operator, and may be adjusted while the machine is in motion.

The marker is of light draft and easily controlled by a light boy, as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The marker is a perfect covering or listing machine, covering one or more rows as may be required, and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

The marker is very quickly changed from marking to covering; it is only necessary to loosen two nuts and move disc along to the required place and adjust. The machine is graduated with the different distances that may be plainly seen by the operator.

The marker is strongly built and equipped with marking-pole, double trees and neck-yoke, and the machine is under



the control of the operator, who, by lowering or raising lever can adjust depth of furrows and raise disc from ground at ends of row while turning without dismounting.

2 Row Marker ..... \$40.00  
3 Row Marker ..... 45.00

## THE HAINES FERTILIZER DISTRIBUTOR

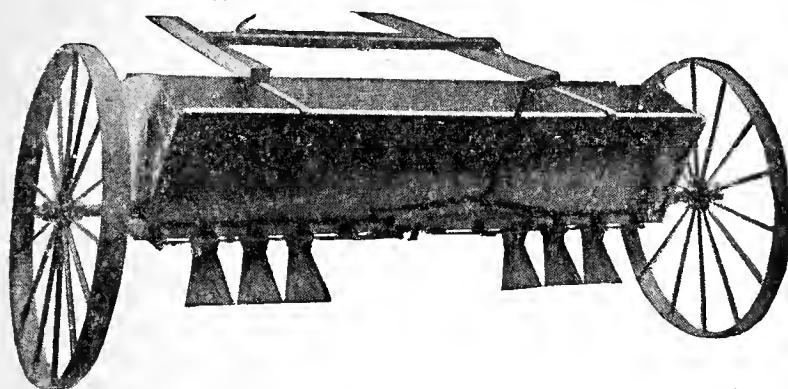
Will Handle All Grades of Commercial Fertilizer, Lime and Ashes, in Rows of All Widths

The Haines Universal Distributors are made in several sizes to meet the various requirements of the planters and farmers.

It can be used as a broad caster for lime or fertilizer. It is easy to load and brings the distributor near the ground, only 11 inches for materials to fall, and for that reason the light materials are less liable to be carried away by the wind. Any quantity per acre may be sown by these machines by simply moving one lever to the adjustment required.

No gears of any kind, no chains, no sprocket wheels, no belts and no springs—fewer parts than any other machine. A positive force feed, strong enough to handle the materials being used without caking in the hoppers, and at the same time giving regular discharge of materials.

Eight-Foot Size ..... \$60.00



Six-Foot Size ..... \$55.00

## VAN BRUNT LIME AND FERTILIZER SOWER

## WITH OSCILLATING AGITATORS

The Van Brunt Lime and Fertilizer Sower is built in the standard size to cover eight feet of ground, with a carrying capacity of ten bushels. For strength, durability and simplicity it is unexcelled.

This sower has 36-inch steel wheels with staggered spokes, heavy, wide rims, removable dust-proof boxings, and compression grease cups with chilled wheel bearings.

Shifter levers on rear of hopper are provided with feed gauge lock, so that when set to sow a certain amount, the feeds may be closed entirely or quantity reduced when desired, and thrown back to the original position, avoiding the necessity of resetting the feed gauge.

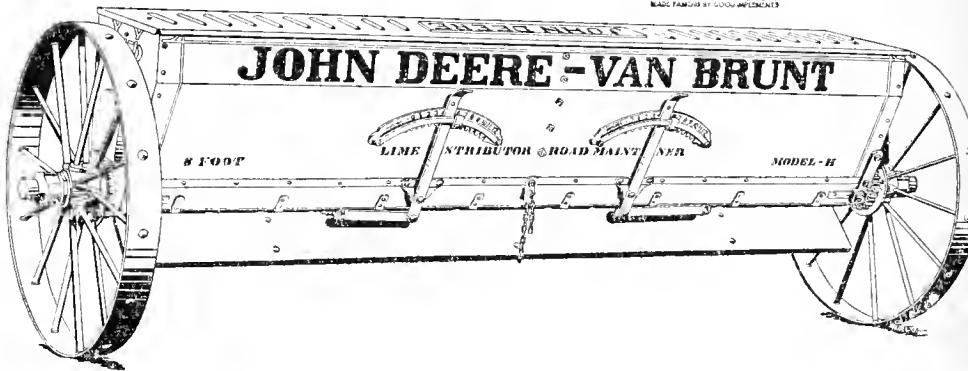
Each ground wheel is a drive wheel, driving one-half of the machine. There are no gears or chains to break or get out of order.

Ground wheels are provided with pawls and ratchets, permitting the machine to be turned or backed without affecting the feeds, and one or both ends of the machine may be disengaged from the feeding mechanism in an instant by releasing the pawls. This feature is very desirable in going to and from the field, or in sowing strips less than the width of the machine.

## REMOVABLE ROTARY WING FEED

Even Distribution Assured

The Van Brunt Lime and Fertilizer Sower is built with an improved rotary wing feed (none better). It has been thoroughly tested and is adapted to distribute crushed lime



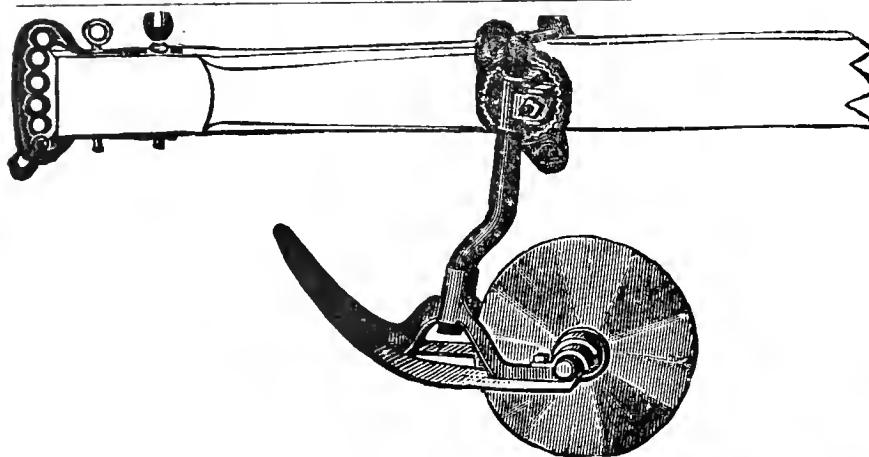
rock, slacked lime, all brands of standard commercial fertilizer, nitrate of soda, land plaster, granulated calcium chloride, dry wood ashes, etc., in any desired amount from 150 to 8,000 pounds per acre, according to bulk and weight of material.

The feed shafts are in two parts. By shifting one lever, both feed shafts may be lifted out and the hopper easily and thoroughly cleaned.

The double feed shaft with direct wheel drive allows the operator to disengage both feeds for transporting.

Price, Plain ..... \$82.50  
Add for Agitator with Mud Guards ..... 12.50

All Prices Subject to Change Without Notice



## WOOD PLOW DOUBLE AND SINGLE TREES

These Trees are made of selected stock, very strong and durable, and are heavily ironed. The cut shows style of Double Tree; the Single Trees have clips in the center and hooks at the ends.

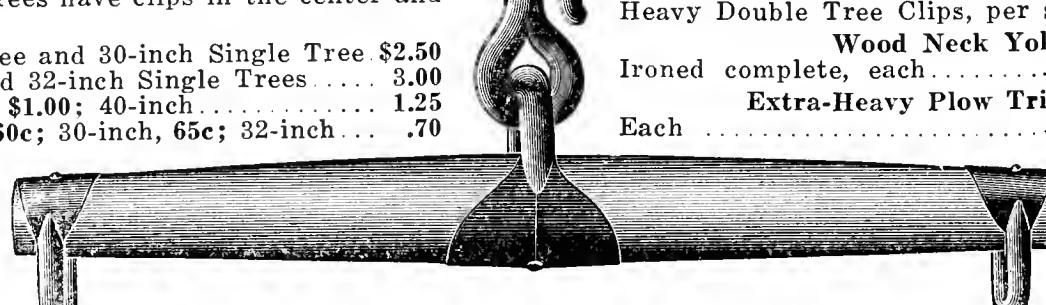
Per set, 36-inch Double Tree and 30-inch Single Tree \$2.50  
 Per set, 40-inch Double and 32-inch Single Trees ..... 3.00  
 Double Tree only, 36-inch, \$1.00; 40-inch ..... 1.25  
 Single Tree only, 28-inch, 60c; 30-inch, 65c; 32-inch ..... 70

## COULTER "MOON" ROLLING

The shoe presses down all weeds and trash and holds same firmly while being cut by the Coulter.

### Prices

No. 1—8-inch disk	.....	\$4.25
No. 2—10-inch disk	.....	4.75
No. 3—12-inch disk	.....	5.50



## QUADRUPLE WEEDEER AND CULTIVATOR

This is a tool which has rapidly grown in favor, and excellent results are obtained from its use. The frame is of angle iron. The teeth are 6 inches apart on each frame and each tooth is bolted on separately. The handles and shafts are adjustable. The teeth are arranged so as to work the ground thoroughly, and also in a manner that permits trash to pass through. By removing 1 tooth, a space of 4 inches can be obtained over the row, and by removing 2 teeth a space of 6 inches can be obtained. On account of this feature the Weeder can be used for working narrow rows by taking out the proper number of teeth. This tool has been adopted and passed upon favorably by many of the most practical farmers.

### Prices:

7½ foot, 39 tooth ..... \$11.00  
 11 foot, 57 tooth ..... 17.00

Extra Teeth ..... 25c Each

## "OUR BEST" SINGLE SHOVEL PLOW

The design of this Plow is readily understood from the cut. It has a heavy steel beam of good quality and a broad steel shovel. One of the most valuable tools around the farm.

### Price:

..... \$4.75

## "OUR BEST" DOUBLE SHOVEL PLOW

Every farmer realizes the value of a Double Shovel Plow, with a good set. The Plow we illustrate is strong and runs nicely. It will give good service.

Price ..... \$5.25

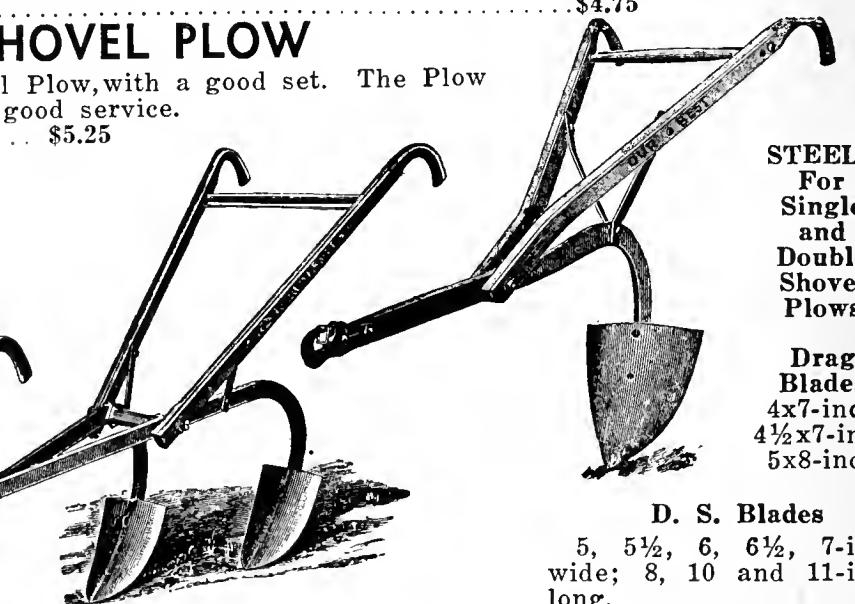
## TRIPLE SHOVEL PLOW

The Triple Shovel Plow, or, as it is often called Three Shovel Drag, is one of the best known and most efficient tools for working corn. In some sections they are used almost exclusively. The beams of our Triple Shovel Plow are of a good grade of steel, and heavy enough to stand severe work. The shovels are of good quality, and on the whole, the tool will give great satisfaction and long service.

Price ..... \$7.00



Full and complete line of Polished Steels for Single and Double Shovel Plows, made in both 1 and 2-hole styles.



### STEELS For Single and Double Shovel Plows

Drag  
Blades  
4x7-inch  
4½x7-inch  
5x8-inch

### D. S. Blades

5, 5½, 6, 6½, 7-inches  
wide; 8, 10 and 11-inches  
long.

### S. S. Blades

All sizes, from 8 to 18-inches wide by 11 to 16-inches long; in 1 and 2-hole.

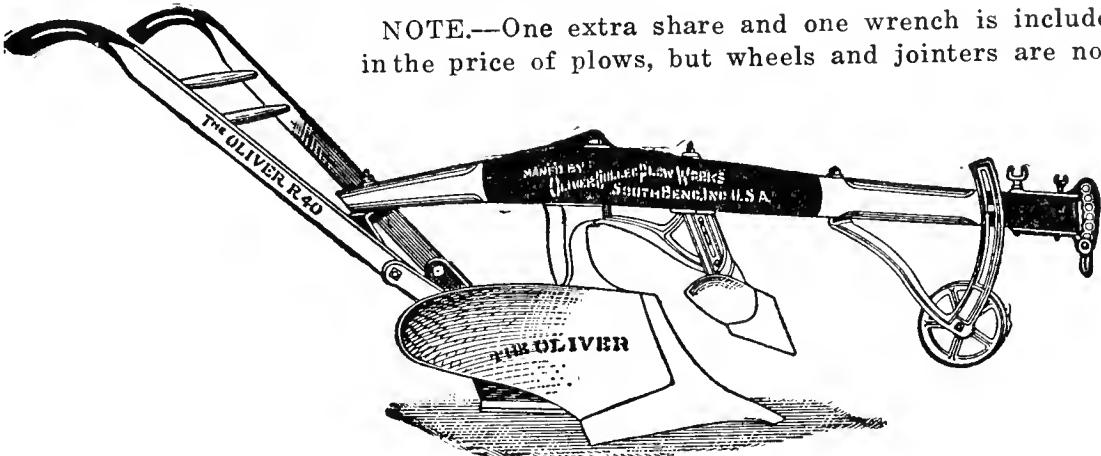
Bull Tongues—1¾, 2 and 3-inch wide by 11-inch long.  
 Calf Tongues—1½, 1¾ and 2-inch wide by 8-inch long.  
 Above can be furnished in 1 or 2-hole.

## GENUINE OLIVER PLOWS

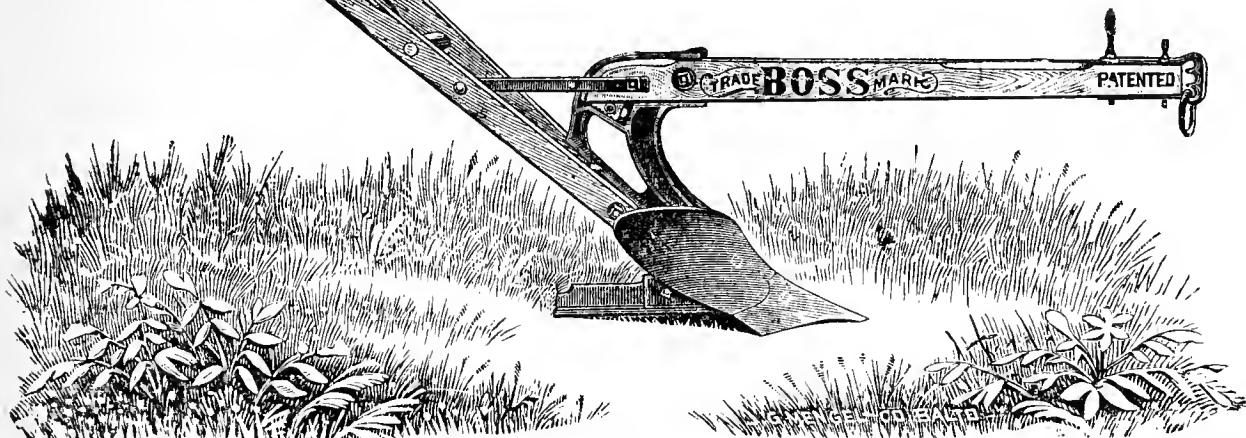
## Prices:

	Steel Beam	Wood Beam
No. A-C-2	\$11.25	
No. B-C-N	14.00	13.50
No. 10-N	16.00	16.00
No. 13-N	18.00	18.00
No. 19-N	19.00	19.00
No. 20-N	21.00	21.00
No. 40-N	23.50	23.50
No. E-I-N		24.00

NOTE.—One extra share and one wrench is included in the price of plows, but wheels and jointers are not.



## THE ORIGINAL BOSS PLOWS



## PLOWS

1-Rig	\$6.50	3-Rig	.....	\$8.50
2-Rig	7.50	4-Rig	.....	9.50

## REPAIRS FOR BOSS PLOWS

Cabbage Shares	\$ .30	Clevice	.....	\$ .40
No. 1½ and 2 Shares	.35	Double Mouldboard and Share	.....	3.00
No. 2½ and 3 Shares	.40	Double Share	.....	1.00
No. 20 Shares	.50	Bolts, All Sizes	.....	.05
Cabbage Mouldboard	.35	Standards	.....	2.75
No. 1½ and 2 Mouldboards	.70	Handles, Complete	.....	1.50
No. 2½ and 3 Mouldboards	.80	Handles, Loose, each	.....	.65
No. 20 Mouldboards	1.30	Beams	.....	1.00
Landsides	.55			

## SYRACUSE STEEL AND WOOD BEAM PLOWS

Medium weight general purpose plows, having long moldboards of good turn and superior scouring qualities.

The plows of this series are unsurpassed for use in hard, dry ground, in gravelly soil, or in stony fields where the ordinary plow cannot be kept in the ground. They will do good work when all other plows fail.

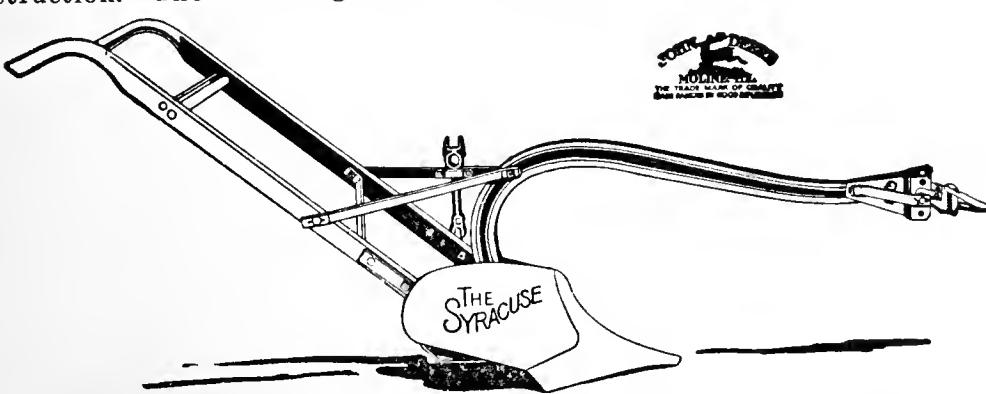
In the cut below is illustrated the straight landside construction. The rib along lower edge extends into furrow

corner, holding plow to its work. The handles are straight at lower ends, permitting convenient replacement, and are attached high by combination braces and brackets, placing them out of the reach of trash. The lower attachment is adjustable, allowing a change in height to suit user.

Chilled moldboards made from a special mixture of irons, melted in a separate furnace and chilled by the Syracuse process, producing boards having absolutely no equal for scouring quality, strength and uniformity.

## Prices:

	Plain	With Wheel	With Wheel and Jointer
No. 1441-B	\$20.75	\$22.15	\$26.05
No. 1442-B	19.25	20.65	24.55
No. 1459	8.80	10.20	.....
No. 1462	19.60	21.00	24.90
No. 1463	16.40	17.80	21.70
No. 1464	15.50	16.90	20.80
No. 1465	14.00	15.40	19.30
No. 1467	9.80	11.20	.....
No. 46, Double Mouldboard Cabbage Plow	\$8.00		

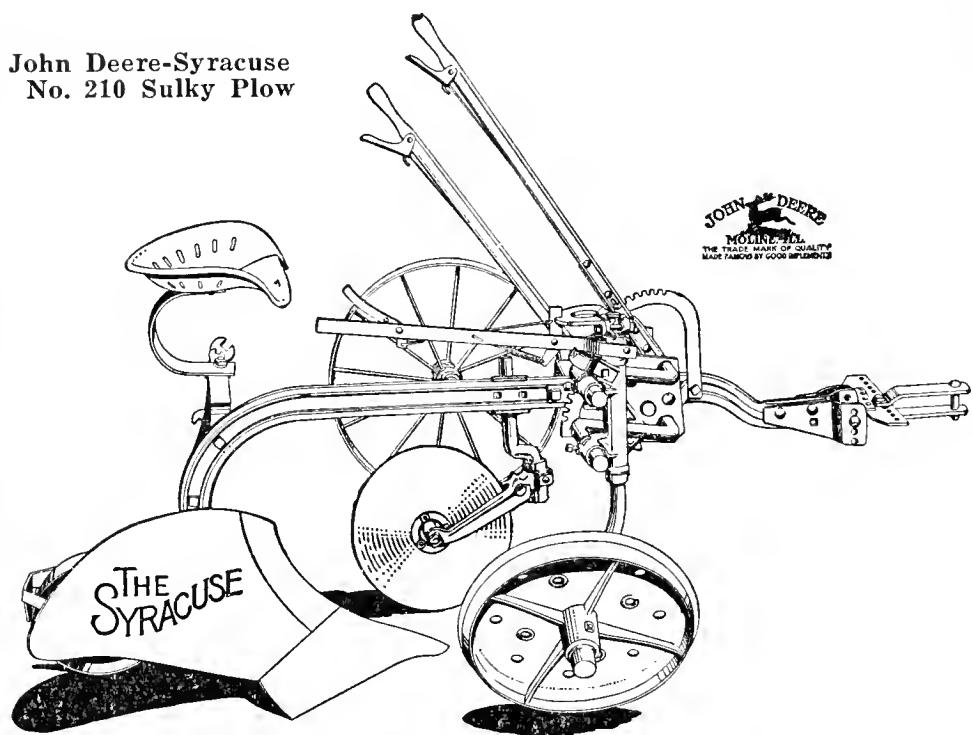


All Prices Subject to Change Without Notice

## JOHN DEERE - SYRACUSE No. 210 SULKY PLOW

A LIGHT-DRAFT, ALL-WHEEL-CARRIED PLOW FOR EVERY TYPE OF SOIL

John Deere-Syracuse  
No. 210 Sulky Plow

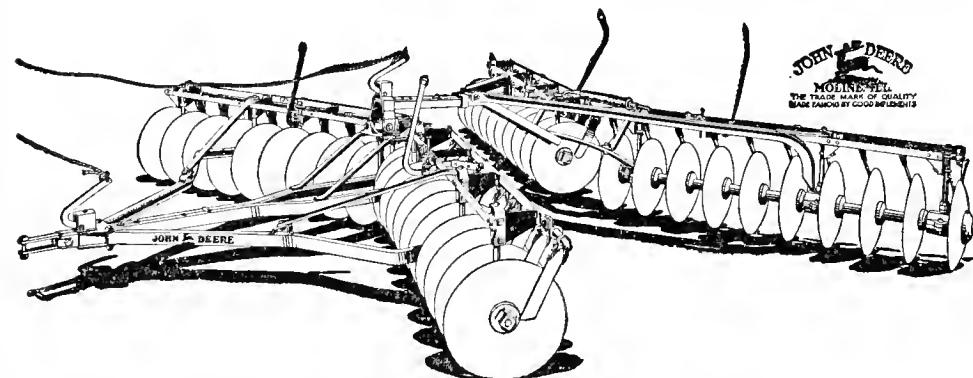


controlling device that automatically keeps the plow cutting furrows at uniform width and depth at all times.

### PRICES

No. 1441—Right, Chilled.....	Weight 378 lbs.....	\$67.50
No. 1442—Right, Chilled.....	Weight 350 lbs.....	66.50

## JOHN DEERE MODEL D. A.—AUTOMATIC TRACTOR CONTROL DISC HARROW

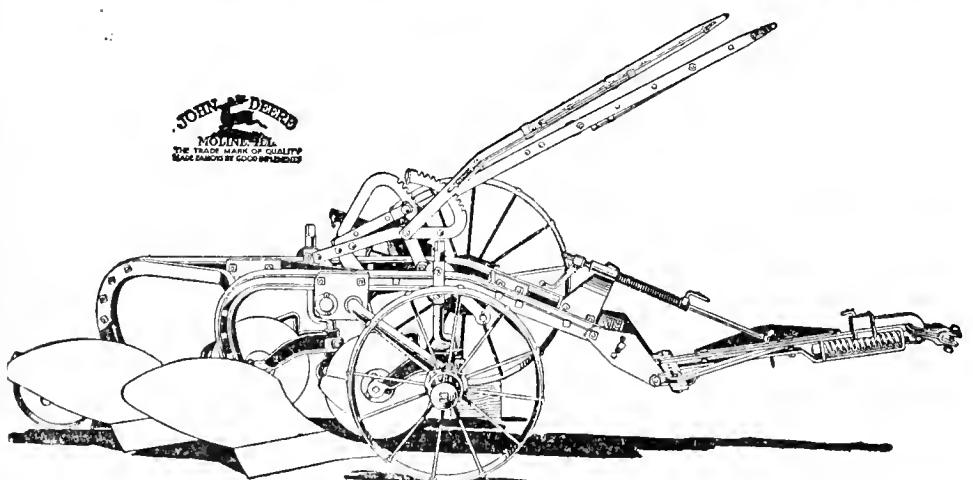


Front and rear gangs can be angled or straightened independently of each other. A pull on the trip rope enables the tractor operator to change the angle of either section instantly to just the proper degree for best disking results.

### PRICES

Model	Weight	
No. DA-618—6-foot Cut	839 lbs.	\$135.00
No. DA-718—7-foot Cut	977 lbs.	145.00
No. DA-818—8-foot Cut	1059 lbs.	155.00

## JOHN DEERE No. 4-B—HEAVY DUTY 2 BOTTOM PLOW



### PRICES

No. 1441—28-inch Cut.....	Weight 944 lbs.....	\$120.00
No. 1442—24-inch Cut.....	Weight 912 lbs.....	118.00

Long, conveniently-reached levers make it easy to control depth and leveling accurately.

The power-lift is simple, and positive. It will stand the hardest, roughest work. It will last far longer than any ordinary power lift.

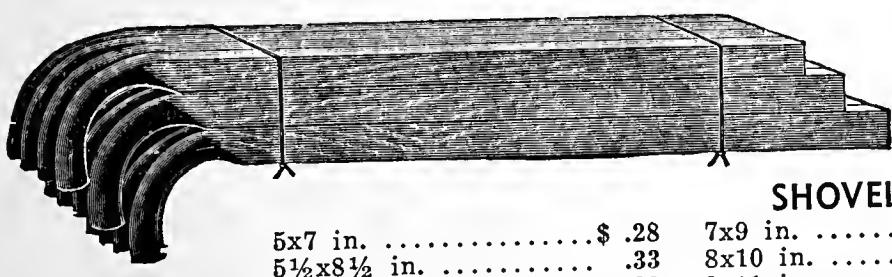
The land wheel, from which the power-lift operates, is solid and straight from tire to box on the inside; it does not pick up dirt or trash, thus it is a natural protection to clutch and driving parts. On a half turn of this wheel, the bottoms lift high and level—no digging into the ground or clogging with trash when turning the ends of the field.

When the bottoms are lowered, they enter the ground point first and penetrate quickly to plowing depth.

This is acknowledged to be the lightest-draft plow of its type. It does an extra good job of plowing in any kind of soil and under all conditions. It runs level and plows at uniform depth, always even when turning square corners. It's the all-wheel-carried plow that has established its superiority wherever the use of this type of plow is practical. The advantages over the ordinary sulky plow are many. The special design of rolling landside, and the fact that the plow can be used with either the Syracuse or John Deere clean-shedding bottoms are features responsible for the extremely light-draft and good working qualities. The rear weight of the plow is supported by the rolling landside, which serves as the third leg of a triangular rolling support. All of the body and frame weight is properly balanced and rolls on three bearings that run in oil. Thus, friction between the plow and the bottom of the furrow is eliminated, and the side pressure against the furrow wall is minimized. Shares stay sharp longer than on any other riding plows, because the rolling landside prevents the plow from running on its nose. Neither is there any dragging friction, which is equally destructive to share life and light draft. The outstanding feature that is found only on this plow, is the front furrow caster wheel that actually governs the plow; the controlling device that automatically keeps the plow cutting furrows at uniform width and depth at all times.

## PLOW PARTS, ETC.

SYRACUSE PLOW PARTS	PLAIN SHARES	SLIP SHARES	LANDSIDES	MOULD BOARDS	STANDARDS	WOOD BEAMS	STEEL BEAMS	HANDLES PER SET	HANDLES, SINGLE	JOINTERS, COMPLETE	JOINTER POINTS	JOINTER MOULDS	WHEELS, COMPLETE	WHEELS ONLY
No. 1-78	.65	.80	.97	4.31			10.50	2.40	1.05	3.75	.20	.75	1.65	.65
" 2-78	.60	.75	.88	3.80			9.50	2.40	1.05	3.75	.20	.75	1.65	.65
" 3-78	.51	.66	.82	3.75			8.75	2.40	1.05	3.75	.20	.75	1.65	.65
" 10-78	.71	1.08	4.68				13.00	2.40	1.05	3.75	.20	.75	1.65	.65
" 46	.35	.30	1.50	2.60	2.25			2.30	.90					
" 50	.35	.63	1.87	2.75	3.60			2.20	1.05					
" 51	.43	.58	.75	2.25	2.90	3.60			.85					
" 52	.43	.58	.82	2.50	3.00	3.60			1.05					
" 56-A	.80	.95	1.55	5.00	4.00	4.75			.85					
" 1441	.75	.90	No. 3 1.10 No. 4 .70	5.25	4.75		5.00	2.30	1.00	4.50	.20	.75	1.75	.65
" 1442	.70	.85	No. 3 1.10 No. 4 .70	4.75	4.50		5.00	2.30	1.00	4.50	.20	.75	1.75	.65
" 1456	.25	.46	.46	1.42	2.80		3.50	2.00	.85				1.65	.65
" 1459	.23	.46	.46	1.40	1.60		3.50	2.00	.85				1.65	.65
" 1461	.70	.85	1.02	3.80	5.00		5.00	2.40	1.05	4.50	.20	.75	1.65	.65
" 1462	.65	.80	1.02	3.45	4.40		4.85	2.40	1.05	4.50	.20	.75	1.65	.65
" 1463	.65	.80	.97	3.15	3.85		4.70	2.40	1.05	4.50	.20	.75	1.65	.65
" 1465	.42	.57	.78	2.10	3.30		4.25	2.00	.85	4.50	.20	.75	1.65	.65
" 1467	.28	.43	.51	1.50	1.95		4.00	1.95	.85				1.65	.65
OLIVER CHILLED PLOW PARTS														
No. A. C. 2	.28		.55	1.50	2.70	3.85	4.00	2.15	.85				S. B. 1.95	.55
" B. C.	.32	.47	.75	1.90	3.00	3.85	6.00	2.15	.85				W. B. 1.65	
" 10	.42	.57	.75	2.10	3.10	3.85	6.00	2.15	.85	S. B. 3.85	.20	.40	S. B. 1.95	.55
" 13	.51	.66	.88	2.75	3.40	3.85	6.00	2.35	.85	W. B. 3.60			W. B. 1.65	
" 19	.55	.70	.92	3.00	3.75	4.15	7.00	2.90	.85	S. B. 3.85	.20	.40	S. B. 2.20	.85
" 20	.60	.75	.97	3.15	4.00	4.15	7.00	2.90	.85	W. B. 3.60	.20	.40	W. B. 2.50	.85
" 40	.70	.85	1.02	3.45	4.55	4.15	8.00		.85	S. B. 4.95	.20	.40	S. B. 2.20	.85
" 83	.85	1.00	1.45	4.15						W. B. 4.40	.20	.40	W. B. 2.50	.85
" 84	12 in. .85	12 in. 1.45	4.60							S. B. 4.95	.20	.40	S. B. 2.20	.85
" 84	14 in. .95	1.00								S. B. 4.95	.20	.40	W. B. 2.50	.85
" E	.70	.85	1.02	3.45	4.40	4.15		2.90	.85	W. B. 3.85	.20	.40	W. B. 2.50	.85

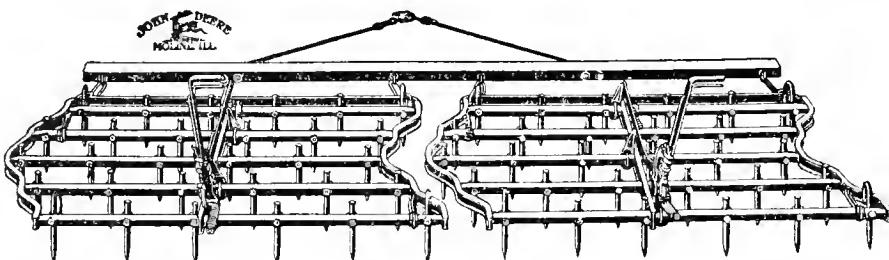
PLOW HANDLES  
NOT FINISHED

1 1/8 x 2 ins., 5 ft. long, per pair.....	\$ .60
1 1/4 x 2 1/4 ins., 5 ft. long, per pair.....	.70
1 1/4 x 2 1/4 ins., 6 ft. long, per pair.....	.80

## SHOVEL PLOW STEELS

5x7 in. ....	\$ .28	7x9 in. ....	.42	11x13 in. ....	.99
5 1/2 x 8 1/2 in. ....	.33	8x10 in. ....	.55	12x14 in. ....	1.10
6x8 in. ....	.33	9x11 in. ....	.66	14x16 in. ....	1.32
6x11 in. ....	.46	10x12 in. ....	.83		

## JOHN DEERE SPIKE-TOOTH HARROWS



Two-Section John Deere Spike-Tooth Harrow,  
Having 30 Teeth to a Section

This harrow is built in sections with 25, 30 or 35 teeth to the section, either  $\frac{1}{2}$ -inch square or  $\frac{5}{8}$ -inch diamond-shaped teeth.

The John Deere Spike-Tooth Harrow is unusually strong for its weight. One reason for its great strength is that there are 2 stiffening bars in each section. The effect of these stiffening bars is to transmit any bending force which may come on a tooth beam to all of the other tooth beams in that section, making them all act together to resist bending. Thus it is practically impossible in ordinary work to bend a tooth beam on a John Deere Spike-Tooth Harrow. The tooth beams are very strong and are made of channel bar, thicker in the center than at the edges—a form which offers great resistance to twisting.

Three-Section John Deere Rigid Spike-Tooth Harrow  
Teeth Are Securely Held

The teeth are held to the tooth bars by special steel clips which fit closely around the teeth, holding them into small notches in the edges of the tooth bars. These tooth clips are then drawn up tightly by means of two nuts which prevent them from working loose and make it practically impossible for a tooth to twist around, drop out and become lost. Each of the steel teeth is complete in itself, well made, with a head formed at the top so that the tooth cannot drop through the clip. Four runner teeth are furnished with each section, and are used as transports when moving the harrow from one field to another, making it unnecessary to take the implement down and load it on a wagon.

50-Tooth,  $\frac{5}{8} \times \frac{7}{8}$ , Spikes Harrow, cut 7 ft. 1 in. .... \$21.00  
60-Tooth,  $\frac{5}{8} \times \frac{7}{8}$ , Spikes Harrow, cut 8 ft. 6 in. .... 23.80  
75-Tooth,  $\frac{5}{8} \times \frac{7}{8}$ , Spikes Harrow, cut 10 ft. 7 $\frac{1}{2}$  in. .... 33.50  
90-Tooth,  $\frac{5}{8} \times \frac{7}{8}$ , Spikes Harrow, cut 12 ft. 9 in. .... 38.00

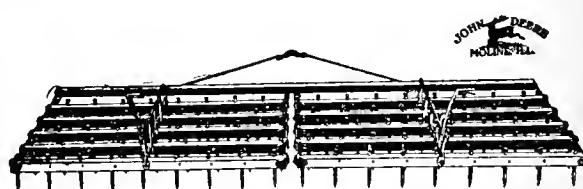
## JOHN DEERE WOOD-BAR SQUARE END HARROW

When you buy a wood-bar harrow, you want it to last a long time. The longer it lasts, the less it costs and the more it pays. Be sure the harrow you buy has the best quality wood—its life is strictly dependent on that quality.

The John Deere Wood-Bar Harrow is made of carefully selected, thoroughly seasoned oak. It is unusually strong and long-lived.

The tooth bars are riveted at each tooth. They hold the teeth firmly and do not warp. The ends of the tooth bars have a strong and durable connection to the side arms.

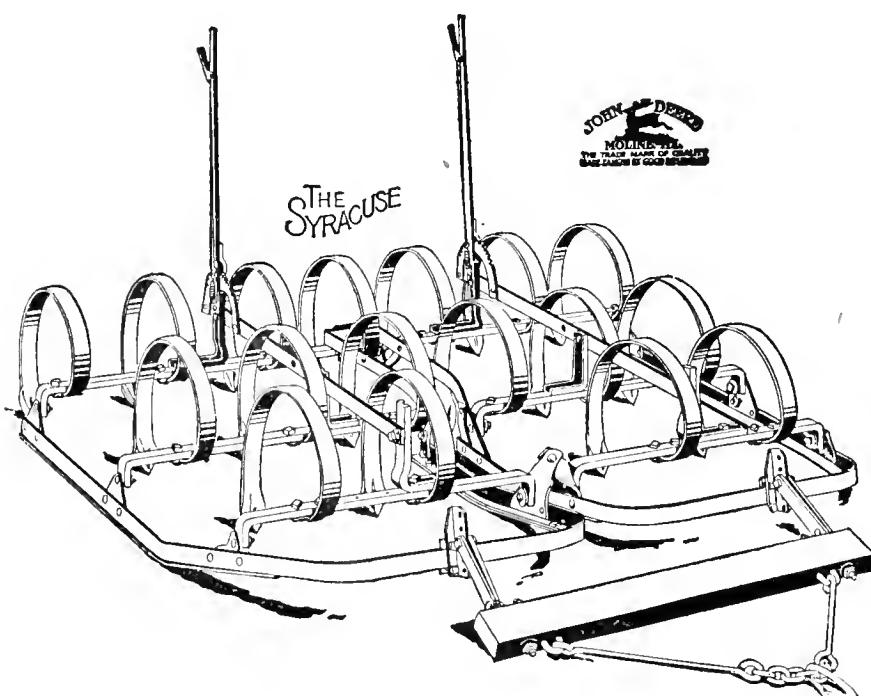
Teeth are the strong standardized square type set close together—this harrow puts land in finest condition. Handy levers control setting of teeth.



Sizes Wood-Bar Square-End Harrow

Section	Number of Teeth	Width	Price
Two	84	10 feet	\$32.00
Three	126	15 feet	44.00
Four	168	20 feet	60.00

## SYRACUSE LEVER SPRING TOOTH HARROW

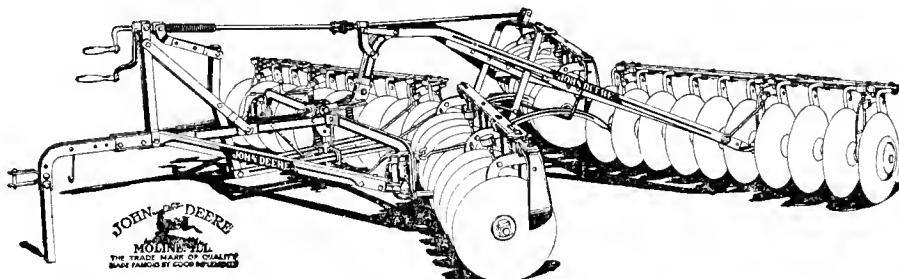


The frame bars of angle steel, thoroughly protected by steel shoes, which double the life of the harrow. Inside frame bars raised at the end, giving free outlet to trash. Frame with small opening in front, absolutely preventing loading at this point, which is so common with other makes. The tooth bars are of channel steel journaled in malleable brackets above the frame which gives the teeth high support and great range or adjustment for depth of cultivation and clearance. Spring teeth of high carbon steel, without bolt holes, and held by malleable holders, allowing for separate adjustment when worn. By use of the levers the teeth can be readily set deep or shallow, or can be thrown out of the ground to clear off trash and for dragging harrow from one place to another. Central and direct draft without side motion; adjustable hitch, so that the teeth at the front and rear can be regulated to work at the same depth. No spring-tooth harrow made is giving such universal satisfaction.

Prices:	
15-Tooth	\$25.50
17-Tooth	27.25
23-Tooth	38.25
25-Tooth	40.00

## JOHN DEERE MODEL L. C. TRACTOR DISK HARROW

STRONGER AND BETTER THAN EVER



### John Deere Model L Disk Harrow

Now, the John Deere Model L Tractor Disk Harrow is stronger and better than ever.

In addition to all the good qualities embodied in the original Model L, new and important improvements have been made which make more effective the exclusive working features that have long identified the Model L as an outstanding favorite.

A wider and heavier frame; angle iron main frame braces instead of flat bars; pivot connection between the main frame and gangs; new pivoted yoke and draw-bar guide; increased carbon in steel wearing parts; heat-treated disk blades—these are some of the improvements which combine to make a stronger and heavier harrow that does better work and lasts longer.

#### Heat-Treated Alloy Steel Disk Blades

The disk blades now furnished on all John Deere Disk Harrows are made of long-wearing alloy steel which is used extensively in the manufacture of automobile parts that

are under heavy strain. The blades are carefully heat-treated after they are formed. This gives an even stronger blade than the high carbon steel disks which have heretofore been furnished on John Deere Harrows.

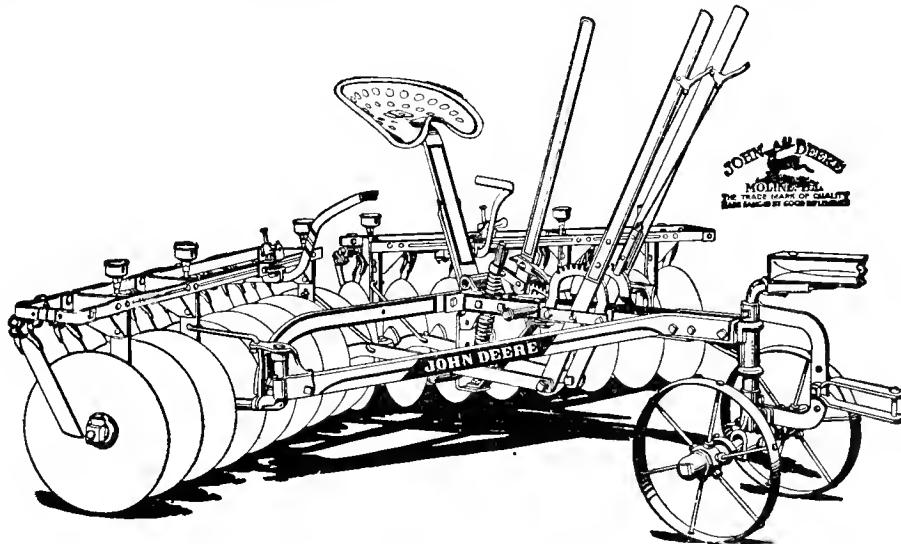
The heat-treated blade is unusually close grained, which combines hardness with toughness. Thus the blade holds its edge, stays sharp and lasts longer, especially when working in tough, hard or stony soil.

All of the superior points of construction which have contributed to the remarkable success and efficiency of the Model L have been retained—the convenient angling cranks, automatic yielding lock coupling, aligning device, and the flexibility of the harrow itself—all of which make good work certain under varying field conditions.

#### Prices on Model L Tractor Disk Harrows

No. LC616 24 16" Discs, cuts 6 feet.....	\$116.75
No. LC618 24 18" Discs, cuts 6 feet.....	126.50
No. LC716 28 16" Discs, cuts 7 feet.....	125.00
No. LC718 28 18" Discs, cuts 7 feet.....	135.75

## JOHN DEERE MODEL B DISK HARROW



### John Deere Model B Harrow

If every field were as smooth as a board floor, flexibility would be of no advantage in a disk harrow. But the truth is there is no field condition in which a flexible harrow will not do better work than a rigid one. A disk harrow must be flexible to do the best work.

Independent action of the gangs is largely responsible for the flexibility of the Model B. This construction is of great value because it allows one part of the harrow to pass over an obstruction in the field without interfering with the rest of the machine. A rigid harrow, under the same conditions, is likely to leave some of the land uncultivated.

Separate angling levers enable the operator to give the gangs the proper angle with relation to each other when working on hillsides, so the harrow does not crowd in any direction.

When overlapping, with one gang running in hard ground and the other gang in soft ground, the single-lever harrow tends to crowd towards the soft ground, due to the greater resistance offered by the hard ground. This fault

is readily overcome with the Model B by giving the gang working in soft ground slightly more angle.

#### Spring Pressure and Third Lever Have Many Advantages

The control of the Model B, so that it will penetrate evenly its entire width in any kind of ground, is made extremely simple and positive by the spring-pressure third lever feature.

The Model B has a pivoted yoke through which the draw-bars pass. This yoke is controlled in its up-and-down movements by a third lever and powerful pressure spring. When this third spring-pressure lever is pulled back, the inner ends of the gang are forced down to work in depressions and dead furrows, or to give extra pressure in hard ground.

#### Prices on Model B Disk Harrows

No. BF416—8 16" Discs, cuts 4 ft. 2-H.E. and Pole...	\$50.00
No. BF418—8 18" Discs, cuts 4 ft. 2-H.E. and Pole...	53.00
No. BF516—10 16" Discs, cuts 5 ft. 2-H.E. and Pole...	53.25
No. BF518—10 18" Discs, cuts 5 ft. 2-H.E. and Pole...	57.25
No. 17—Forecarriage .....	11.25

**No. 8 PLANET JR. HORSE HOE AND CULTIVATOR**

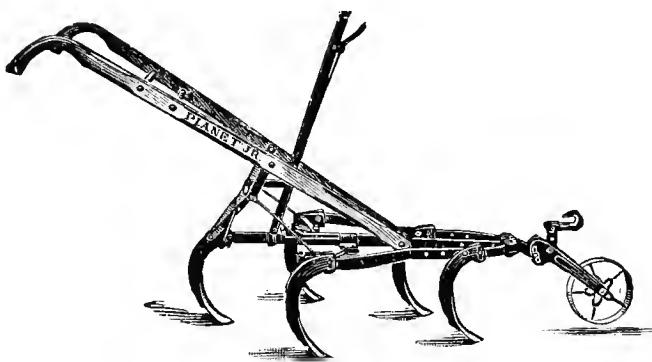
This is the best and most perfect tool of its kind ever offered. Frame is of stiff steel, extra long and 1 or 2 inches higher than other makes. Closes to 9 and opens to 25 inches. Provided with patent depth regulator, level wheel and improved lever expanding device, which combines great strength with stiffness and simplicity. This tool is the result of thorough knowledge of both farming and manufacture. Price \$15.00.

**No. 7 PLANET JR. HORSE HOE AND CULTIVATOR**

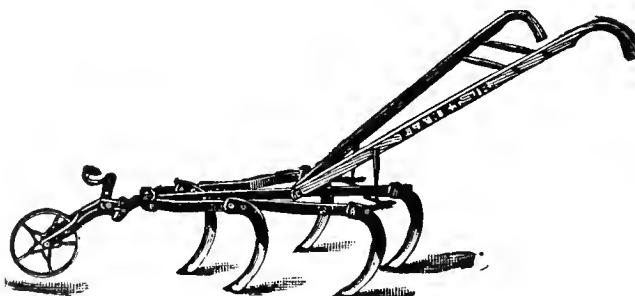
This tool is the No. 8 without the depth regulator. It works the same as No. 8, but lacks the perfect steadiness and control of depth made possible by depth regulator. Price \$14.25

**No. 9 PLANET JR. HORSE HOE AND CULTIVATOR**

Identical with the No. 8, except that it has no depth regulator, and plain wheel instead of lever wheel. Price, with wheel, \$13.00; without wheel, \$11.50.

**No. 9 PLAIN CULTIVATOR**

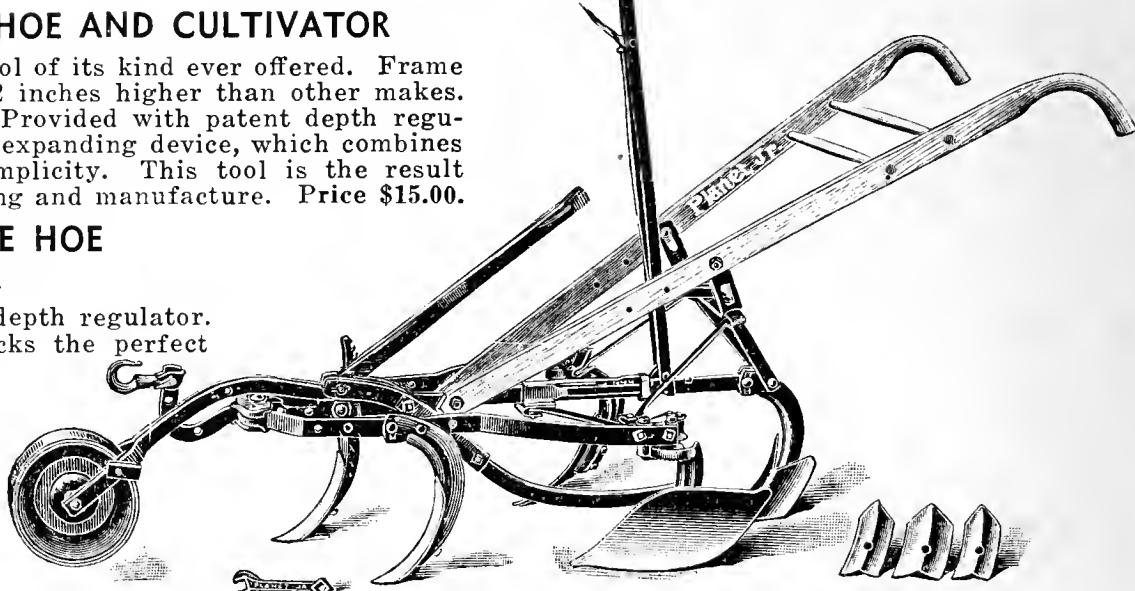
The No. 9 is well built and of the right design. The especially hardened beveled steel teeth keep sharp and give 50% more service. The No. 9 is light, yet strong, with steel wheel, hollow steel standards, and steel draft hook. At once simple and practical, it is always ready for work year after year. Price, with wheel, \$11.50; without wheel, \$10.00.

**No. 100 PLAIN CULTIVATOR**

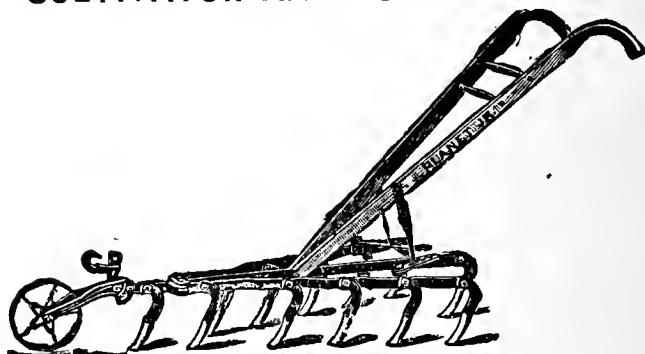
No. 100 Cultivator. This very popular tool is strong, plain, simple, business-like and does its work to perfection. Has extra high, round-throated, hollow steel standards with patent beveled steel teeth, and expanders which make an extra stiff tool, yet allow quick adjustment for width. One side may be closed while the other is left open for special work close to the row. Satisfactory in every respect. An every-day, all-day tool. Price, with wheel, \$8.35; without wheel, \$7.00.

**PLAIN CULTIVATORS**

No. 4, with wheel.....	\$ 9.50
No. 4-D, no wheel.....	8.50
No. 9, with wheel.....	11.50
No. 9-D, no wheel.....	10.00
No. 83, with wheel.....	12.75
No. 83-D, no wheel.....	11.25
No. 100, with wheel.....	8.35
No. 100-D, no wheel.....	7.00
No. 101, with wheel.....	9.85
No. 101-D, no wheel.....	8.50
No. 107, with wheel.....	11.35
No. 107-D, no wheel.....	10.00



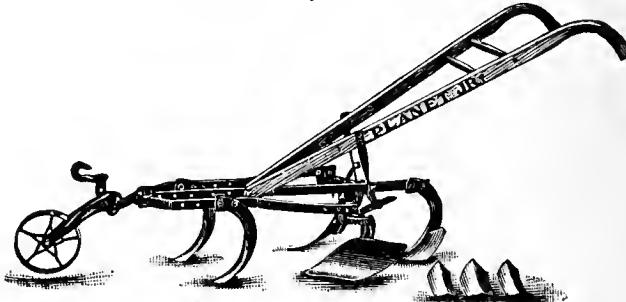
**No. 90 PLANET JR. 12-TOOTH HARROW, CULTIVATOR AND PULVERIZER**



This tool has rapidly grown in favor among strawberry growers, market gardeners, truckers and farmers. This is because the 12 chisel-shaped teeth do such thorough work, and at the same time do not throw the earth on small plants, and because the tool is so convenient, durable and strong. With this tool you can do such a fine grade of work, and such a variety, that it is really a very valuable tool, and it will be to the interest of farmers to send for catalogue fully describing it.

Price

No. 90 Complete .....	\$15.50
No. 90 B. Less Pulverizer .....	12.75
No. 90D. Plain .....	10.50
No. 91 With Wheel .....	11.85
No. 92 D Plain .....	9.00

**No. 4 PLANET JR. HORSE HOE**

This tool is low in price, strong and simple; provided with patent handle braces; firm, simple, strong, convenient. With these, the frame and handles seem almost like one solid piece. Changes in width are very quickly and easily made by the patent expanders, and one side may be opened wide and the other closed. Furnished with or without wheel. Price, with wheel, \$11.00; without wheel, \$9.50.

**HORSE HOES**

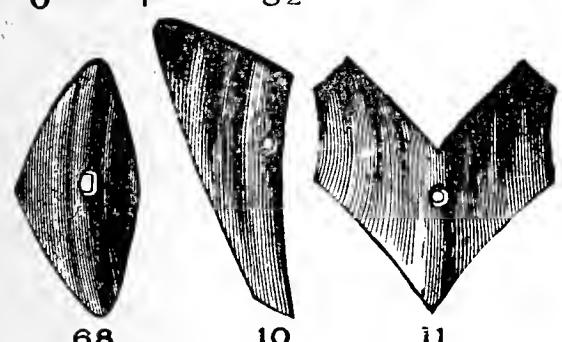
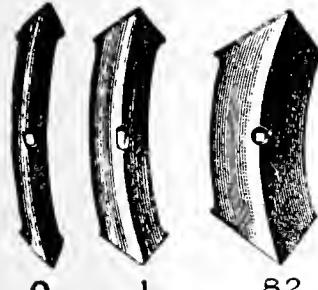
No. 4, with wheel .....	\$11.00
No. 4-D, no wheel.....	9.50
No. 7 .....	14.25
No. 8 .....	15.00
No. 9, with wheel.....	13.00
No. 9-D, no wheel.....	11.50
No. 82, with wheel .....	14.25
No. 82-E, no wheel .....	13.25
No. 82 D, no wheel .....	12.50

## BENT FRAME CULTIVATOR

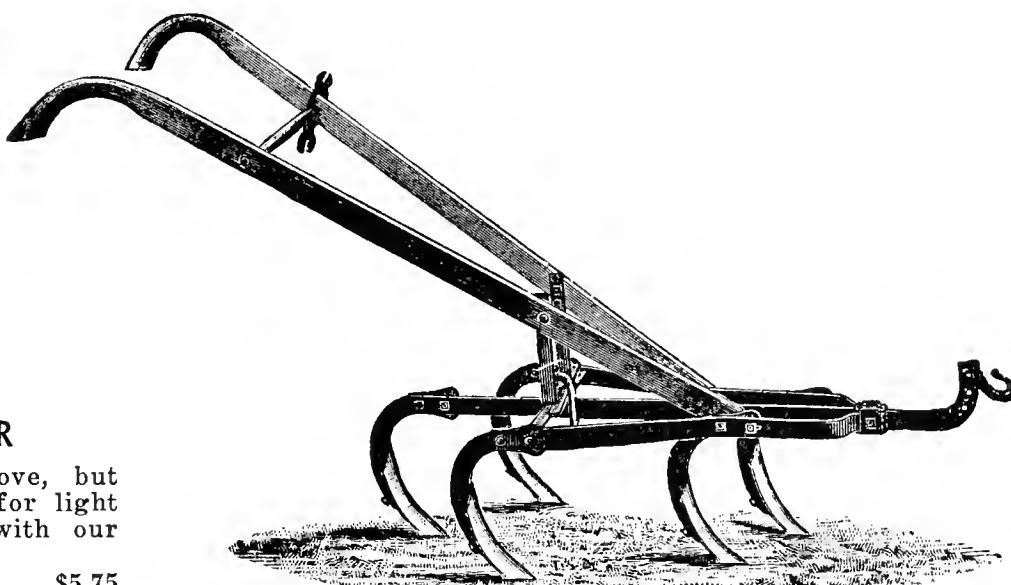
**IRON AGE**

To those who desire a Cultivator a little lighter and lower-priced than the "Planet Jr." we offer this one as a thoroughly reliable tool, from the standpoint of construction and material as well as working qualities.

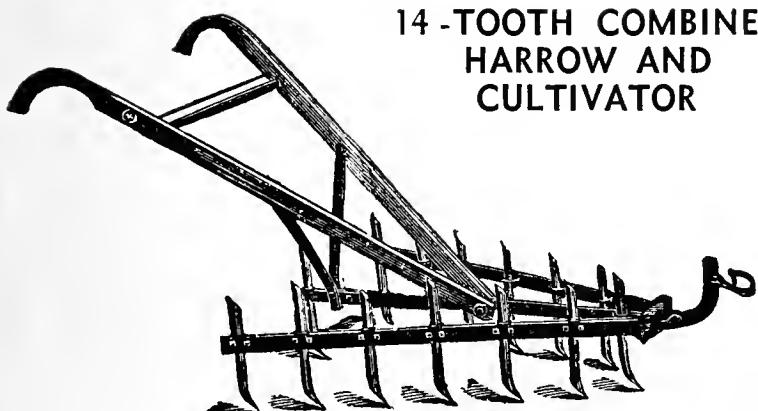
Price of Plain Cultivator..... \$6.50  
Horse Hoe attachments..... 2.75

**SUPERIOR CULTIVATOR**

Similar to the above, but lighter; a good tool for light soil. Very popular with our trade.  
Price ..... \$5.75

**CULTIVATOR POINTS AND EXTRAS**

No. 0—1 1/4 inches wide. Each.....	\$ .13
No. 1—2 inches wide. Each.....	.15
No. 82—3 inches wide. Each.....	.16
No. 68—Oval or Jersey. Each.....	.24
No. 10—Turn Shovels, either right or left-hand. Each.....	.30
No. 11—Shovel Blade, 8 inches wide.....	.45
Horse Hoe Steels, right or left. Each.....	.45
Wheels for Cultivators.....	1.00
Cultivator Plate Bolts.....	.03
Cultivator Frame Bolts.....	.03
Cultivator Handles. Per pair.....	1.50
Teeth for Combined Harrow.....	.14

**14 -TOOTH COMBINED HARROW AND CULTIVATOR**

This is a very useful tool, which can be made to do a variety of work. The teeth are set in different positions. Desirable for first cultivation. Price, plain, \$7.75; with lever, \$8.50.

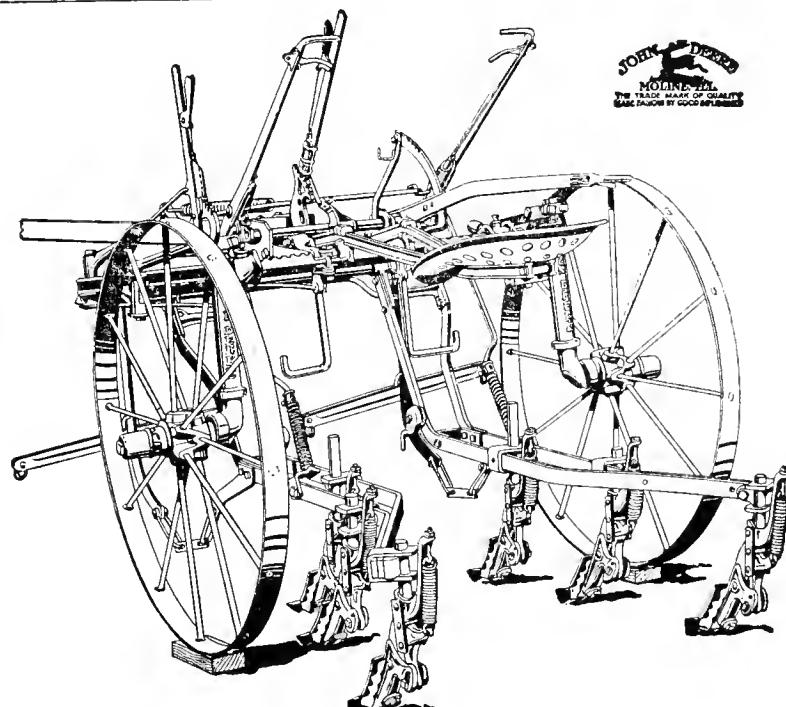
**THE KL MAKES GOOD WORK EASY**

From the moment you get on the seat of the KL, you will appreciate the exceptional ease of operating this cultivator.

Raising and lowering the rigs, fixing depth, spacing the rigs the desired distance from the row, regulating the set and suck of the shovels or sweeps exactly right under all conditions, and dodging on crooked rows are all accomplished quickly and easily without stopping the team. You will be sure to like the handy lever control.

**Balances Perfectly**—With the master lever, you raise or lower both rigs. The correctly-attached lifting spring makes the operation of the master lever easy. When the rigs are raised for turning, the cultivator is perfectly balanced. The pole does not fly up. Because of the perfect balance, both you and the team are comfortable.

When you lower the rigs by releasing the master lever, all shovels enter the ground level.



JOHN DEERE  
Moline, Ill.  
THE TRADE MARK OF QUALITY  
EARLY FAIRNESS BY GOOD EQUIPMENT

This picture Shows the John Deere KL equipped with No. 179, six-shovel, spring-trip aligned rigs.

**Space Rigs with Lever**—By means of the spread lever, you space the rigs for distance of cultivation from the row. The rigs spread equally at front and back.

**Prices:**

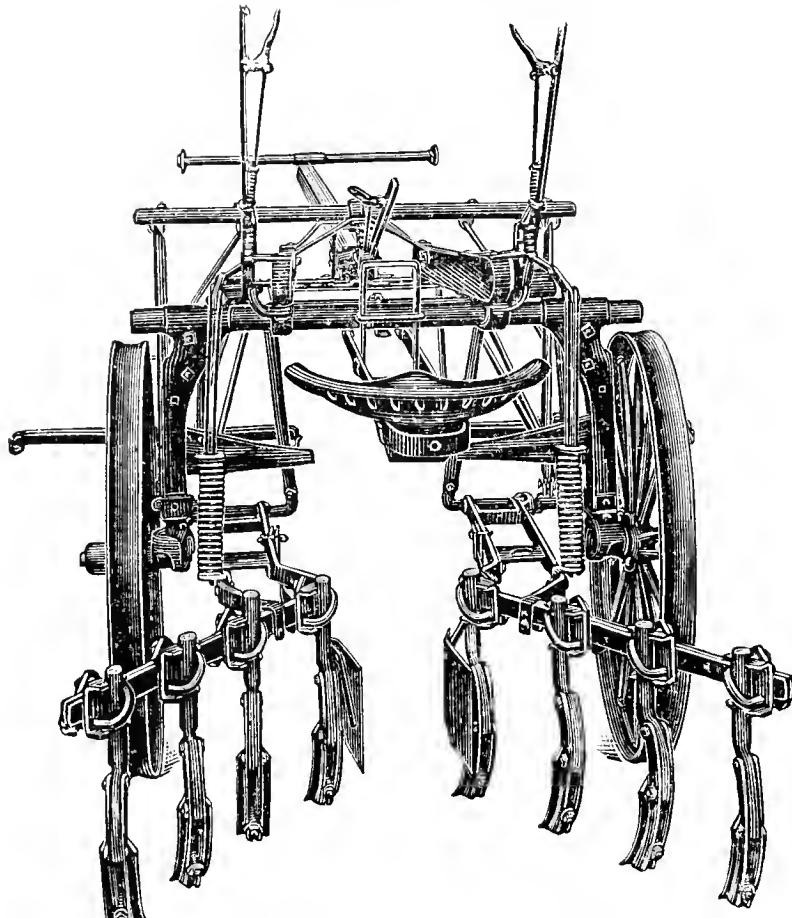
KL 179—6 Shovel Spring Trip Cultivator.....	\$65.00
KL 189—8 Shovel Spring Trip Cultivator.....	71.50
KL 178—6 Shovel Pin Brake Cultivator.....	60.00
KL 188—8 Shovel Pin Brake Cultivator.....	63.00

**SEND FOR SPECIAL CATALOGUE**

*Best by Every Test*

## No. 76D Planet Jr. Pivot Wheel Riding Cultivator

**Strong though light; Not Complicated; Easily Handled**



**REGULAR EQUIPMENT:**

Eight 2 1/4 x 10-inch Cultivator Steels.  
Spring Lift. Pair Plant Shields. Packed Weight 519 pounds.  
Price \$63.80

### The New 76 Planet Jr.

The No. 76 Pivot Wheel Riding Cultivator has many improvements over any other similar cultivator. Briefly these consist of a clear view of the row in front of the Wheel Axle frame and a better view behind this frame between seat bars; gangs are raised without pulling back against the team. Gang lifting levers are in a more convenient position and the gang is lowered and spring compressed by one motion. Front end of gang is adjusted with separately, a lever for each gang. Tongue is rigid with

**TO DETERMINE THE QUALITY**

**OF A CULTIVATING STEEL**

Look on the Back

If it reads



### GENUINE PLANET JR. EXTRAS

Regular Sweeps fit all Planet Jr. One and Two-Horse Cultivators.

	Price	No.
1 x 8-inch Steels	\$.16	4064
1 1/4 x 8-inch Steels	.17	1156
1 3/4 x 8-inch Steels	.18	2367
2 1/4 x 8-inch Steels	.19	2368
3 x 8-inch Steels	.21	2369
4 x 8-inch Steels	.27	2370
10-inch Steels fit all Planet Jr. Two-Horse Cultivators, excepting No. 72.		
1 1/4 x 10-inch Steels	\$.20	1888
1 3/4 x 10-inch Steels	.21	1249
2 1/4 x 10-inch Steels	.22	1199
3 x 10-inch Steels	.26	1200
4 x 10-inch Steels	.32	1201

Shovel Steels fit all Planet Jr. One and Two-Horse Cultivators.

7-inch Shovel Steel.... \$ .40 2539  
8-inch Shovel Steel.... .45 2540

Hillers and Plows fit all Planet Jr. One and Two-Horse Cultivators, excepting Twelve-Tooth Harrow.  
6-in. Hillers, per pair... \$2.00 1167-8  
7-in. Plows, per pair 2.25 495-6

The No. 76D Planet Jr. Pivot Wheel Riding Cultivator made so many friends some years ago that they have convinced us that this light and easily handled riding cultivator should be made again.

Springs on the lever connecting pieces enable the driver to set the teeth any depth he may choose, while still on the headland, instead of having to wait until part way up the row; and the spring tension allows the teeth to adjust themselves to uneven surfaces.

The Pivot Wheels make steering easy; act quickly and enable the operator to follow uneven rows.

The Gang Frames are made of special stiff steel, are thoroughly braced, and are adjustable sidewise on the arch to and from the row.

The No. 76D cultivates all rows from 28 inches to 48 inches apart. The wheels close to 32 inches and open to 40 inches.

The Standards are steel and carry eight 10 x 2 1/4 inch specially hardened Planet Jr. bevel steel cultivator teeth. The standards are rigidly held in any desired position by new steel clamps with heavy bolts, preventing the standards from twisting or working loose.

The Tongue is hinged to the frame and is operated by a lever, so as to regulate the depth of the gang in front perfectly, while two other convenient levers govern the depth of the gangs in the rear with the greatest accuracy.

The Seat is adjustable backward and forward to suit man or boy, and also in height; it can be dropped so low that the operator can uncover small plants from the seat.

The Wheels have broad concave tires, renewable boxes, renewable pivots and dust caps and are made of steel with welded spokes.

In design, quality of material, and workmanship, and general usefulness, the No. 76D Pivot Wheel Riding Cultivator is a typical Planet Jr. implement; and its lightness and simplicity in operation will convince you that it is a good tool for your work.

### Pivot Wheel Cultivator

the frame at all times making the frame always practically level. There are a number of other minor improvements which make this the best all round one row riding cultivator.

REGULAR EQUIPMENT:	Spring Lift.
Eight 2 1/4 x 10-inch Cultivator Steels.	
One Pair 7-inch Plows.	One Pair 14-inch Discs.
Two 8-inch Shovels.	Packed Weight 547 pounds.
No. 76 Complete.....	\$67.50

You can depend upon it being the Standard of Quality and Design and an assurance of long and satisfactory service.

Hoe Steels fit Planet Jr. Horse Hoe Side Standards.

Price	No.
\$1.20	1163-4
1.40	1165-6

Beet Hoe Steels fit Planet Jr. Two and Four-Row Beet Cultivators and Twelve-Tooth Harrows.

6-in. Beet Hoe Steels...	\$1.30	3426-7
7-in. Beet Hoe Steels...	1.30	2188-9

Improved Flat Sweeps fit all Planet Jr. One and Two-Horse Cultivators Standards, excepting Horse Hoe Side Standards.

3-in. Imp. Sweep .....	\$.30	2731
5-in. Imp. Sweep .....	.40	1494
8-in. Imp. Sweep .....	.50	1495
10-in. Imp. Sweep .....	.60	1496
12-in. Imp. Sweep .....	.75	1497
15-in. Imp. Sweep .....	.90	1498
18-in. Imp. Sweep .....	1.20	1499
24-in. Imp. Sweep & bolt	2.25	3582

Irrigation Steels and Turning Shovels fit all Planet Jr. Cultivators.

Irrigation Steel ..... \$1.50 2248

Per Pair
5-inch Turning Shovels. \$ .75 3822-3
6-inch Turning Shovels. .85 3580-1
7-inch Turning Shovels 1.10 3824-5

## CHAMPION STEEL FIELD ROLLERS

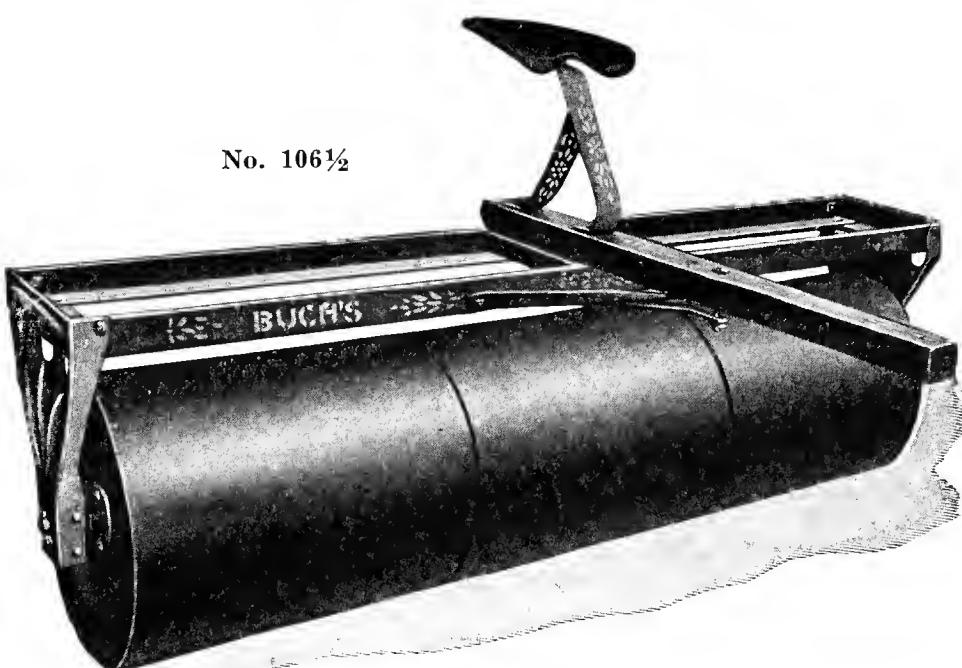
This roller has an angle iron steel frame, which makes it an all steel roller, except the tongue, single trees and neck yoke, which are wood. We call particular attention to the patent pressed steel head, which keeps from clogging in the shells as in an open head roller; also to the removable chilled bushing, which is bolted fast to the head, and which is a valuable feature, as they can readily be replaced by any one at a trifling expense and saves the trouble and cost of sending the roller to the machine shop when the bearings are worn out. It has also, heavy iron braces from the pole to frame, making it very rigid and prevents breaking the pole. Best quality workmanship throughout. Can be furnished in one and two horse sizes.

No. 118—One-Horse Roller. Width 48 inches. Diameter 24 inches. 2 sections, steel drums. Price \$38.00

No. 105½—Two-Horse Roller. Width 96 inches. Diameter 24 inches. 2 sections. Steel drums. Price \$40.00

No. 106½—Two-Horse Roller. Width 96 inches. Diameter 24 inches. 3 sections. Steel drums. Price \$42.50

No. 106½



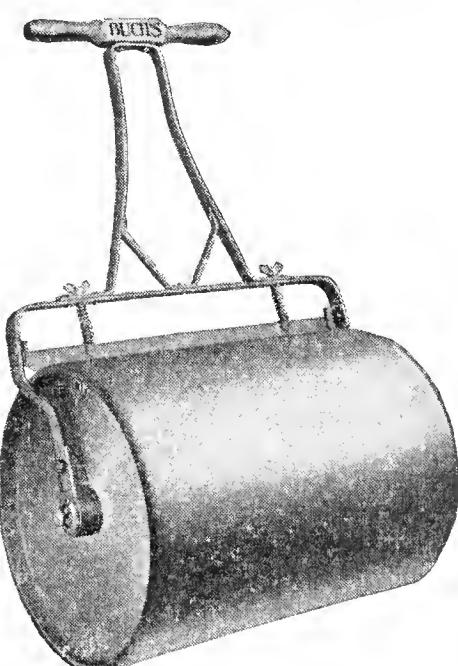
## THE BRILLION PULVERIZER FOR BIGGER CROPS

The Soil Pulverizer is not recommended to replace any tillage tool which you ordinarily use. It simply finishes what the other seedbed makers begin. Under the old way, a field was plowed, disked and smoothed with a peg-tooth harrow—but you know of many, many times when after those operations were complete the field was far from smooth. There were great lumps of dirt still cluttering up the surface. Hard clods were scattered about, and under the hot sun these became solid and utterly devoid of moisture. It is not the best kind of a seedbed to plant grain in, because the drill furrow openers will not penetrate evenly—some seed is scattered about on the surface to be eaten by the birds and the resulting stand is considerably under normal.

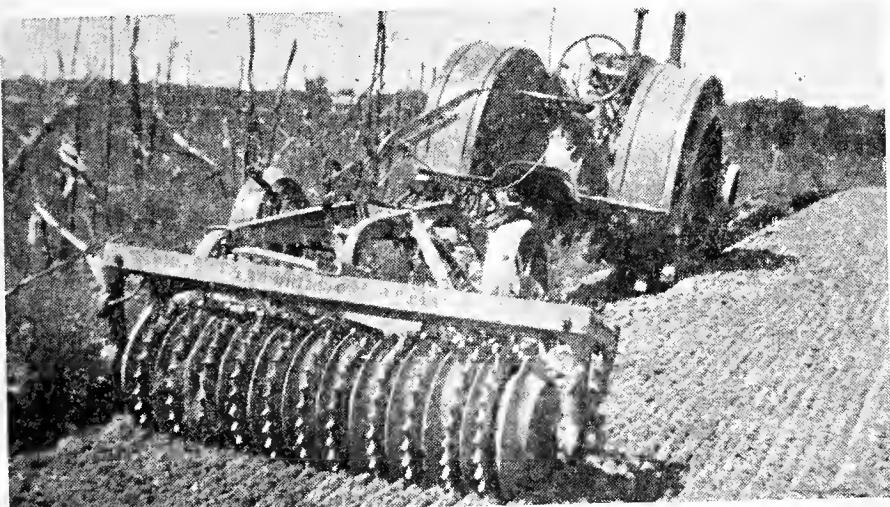
6 feet	\$72.50
7 feet	81.00
8 feet	88.50
9 feet	97.00

## WATER BALLAST LAWN ROLLER

Can be filled with water to any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts, etc.



## THE BRILLION TRACTOR PLOW PULVERIZER



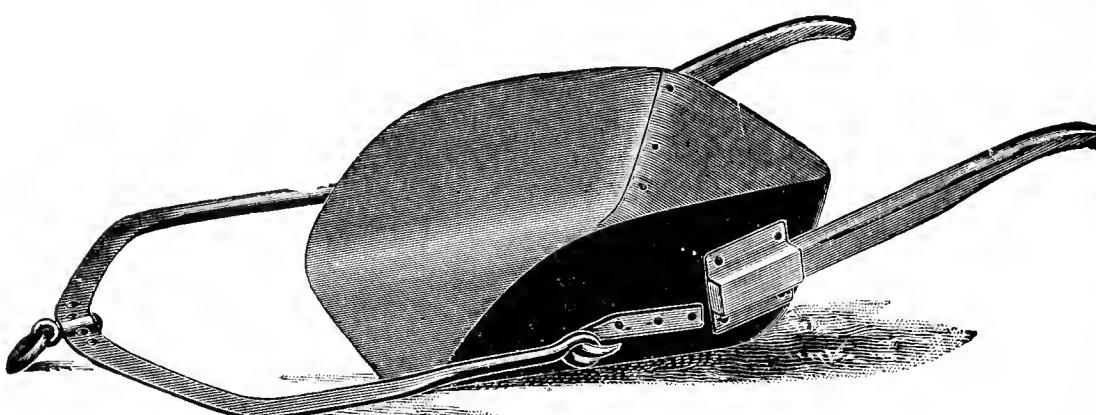
The Brillion Tractor Plow Pulverizer has been given the most extreme tests in the field and in the laboratory, and has been found to measure up to the highest expectations. Thousands of farmers throughout the country are confident that it is the leader of them all. It is exceptionally strong and well constructed.

### PRICES

36-inch, with Plow Hitch	\$41.00
48-inch, with Plow Hitch	46.00

No.	Dia. in.	Length in.	Weight			Price List
			Filled with Empty	Filled with Water	Filled with Sand	
601	14	24	70	175	400	\$13.00
602	18	24	85	265	475	15.50
603	24	24	110	420	630	17.75
607	14	15	...	...	...	10.00

## DRAG SCRAPERS

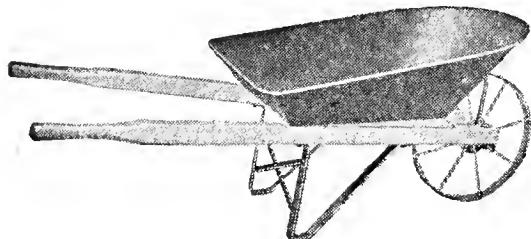


Made of heavy steel plates and are cut from a single sheet pressed cold, lapped and riveted at the corners, giving greatest strength where needed. This double thickness at corners also adds greatly to the life of the scraper. Heavy shoes or runners are used to stiffen the bottom and lessen wear. The bails are manufactured from a special

steel guaranteed not to bend or break.

No.	Capacity	Length	Width	Depth	Weight	Price
3	3 cu. ft.	29 in.	27½ in.	18½ in.	65 lbs.	\$7.50
2	5 cu. ft.	31 in.	28 in.	10½ in.	75 lbs.	8.00
1	7 cu. ft.	32½ in.	31 in.	11½ in.	83 lbs.	8.50

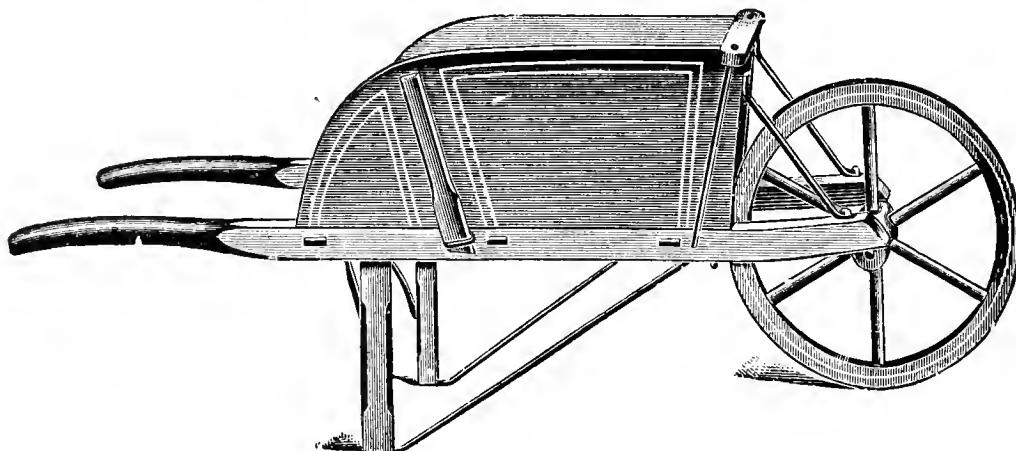
## STEEL TRAY, WOOD FRAME BARROWS



These barrows will meet the demand for good general purpose barrows at a low price. Extensively used around the home, farm, garden, orchard and other light work. Pressed trays with reinforced edges. Capacity 3 cubic feet. Handles are made of hard wood smoothly finished on all sides. Riveted steel channel legs, extra wide section, add materially to the appearance and the wearing quality of the barrow. Eight spoke fabricated steel wheels with 1½ x ¼ inch tires. Malleable iron brackets tapped to receive threaded axle. Handles are varnished light oak color. Approximate weight 38 pounds.

Price \$4.25

## GARDEN AND FARM BARROWS



Made of seasoned hard wood. Removable sides. Wood or steel wheel. Attractively painted. Strong. Neat and durable. Made in three sizes.

No. 1—Size of Body 30 inches, 24 inches wide in front, 25 inches in back. Side boards 12 inches high, 30 inches long. 5½ feet long, 2¾ x 1¾ inches. Wheels 22 inches diameter. 6 spokes, 1¾ inch tire. Weight 60 lbs.

Price \$9.00

No. 2—Size of Body 28 inches long, 20 inches wide in front, 24 inches wide at back. Sideboards 27 inches long, 12 inches high, Handles 5 feet long, 2 x 1¾ inches. Wheel 20 inches diameter, 6 spokes, 1¾ inch tire. Weight 50 lbs.

Price \$7.50

No. 3—Size of Body 26 inches long, 19 inches wide in front, 22 inches wide in back. Sideboards 27 inches long, 12 inches high. Handles 4 feet 9 inches long, 2 x 1½ inches. Wheel 20 inches diameter, 6 spokes. Weight 44 lbs.

Price \$7.00

## CONTRACTORS' BARROWS

All Steel. Trays pressed from heavy gauge sheet steel with wired edges. Tubular frames. Riveted channel legs with shoes. Painted blue.

No. S-4—Capacity 4½ cubic feet heaped. Wheel 16 inches in diameter, 1¾ x 5/16 inch tires. Price \$8.50.

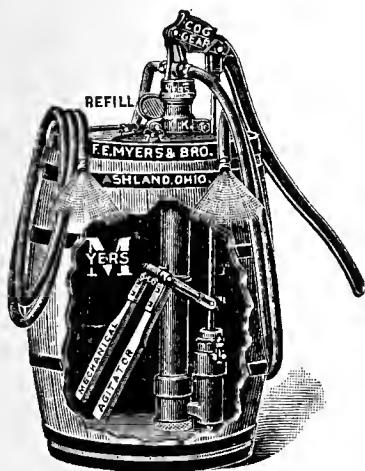
No. T-8—Capacity 6 cubic feet heaped. Wheel 16 inches in diameter, 2 x 5/8-inch tires. Price \$12.00.



## MYERS STANDARD BARREL SPRAY PUMPS, ETC.

For Hot, Cold or any Kind of Mixture—Has Mechanical Agitator, Solid Brass Ram Plunger, Ground Bevel Valve and Seat

## MYERS O. K. COG GEAR SPRAY PUMP



The new Myers O. K. Spray Pump has a special clamping device that can be adjusted to any barrel, regardless of the height or width. The cylinder is what is known as a ram plunger, made of solid brass tube with a closed end, which passes through a circular hemp packing, which adapts it for pumping hot, cold or any kind of mixture. The packing gland has a simple and positive adjustment, by which all wear can be readily taken up. The valves can be easily taken out and repaired. The air chamber is made of 2 3/4-inch steel tube, the handle is wrought steel, with adjustable stroke,

and the pump is fitted for two strings of discharge hose. Price of Pump, with 1 lead of 15-foot hose, 8-foot pipe extension and Vermorel or Bordeaux nozzle, including barrel, \$30.00.

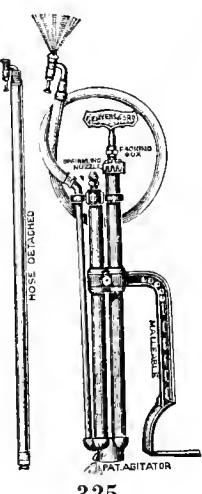
If Barrel not wanted \$3.50 Less.

If Pipe Extension is not wanted, deduct 75c.

## LEVER BUCKET SPRAY PUMPS



No. R324 represents the Myers Lever Bucket Spray Pump, made of brass and fitted with brass valves and patented agitator. The cylinder is 1 inch in diameter with solid plunger. The air chamber is 50 per cent larger than the ordinary bucket spray pump, has malleable iron foot rest and malleable lever. Price, plain \$6.00. Add for 8 foot extension rod, 75c.



No. 325, Brass Spray Pump with agitator, hose and combination fine coarse and solid stream nozzle, with malleable foot rest. Price, plain \$4.00. Add for 8 foot extension rod, 75c.

## SPRAY GUN

MYERS SPRAY GUN,  
LONG DISTANCE SPRAY

The idea to enable one man to do the spraying, thus saving the expense of two extra men as is the case with the ordinary spray rig using two lines of hose with bamboo extensions.

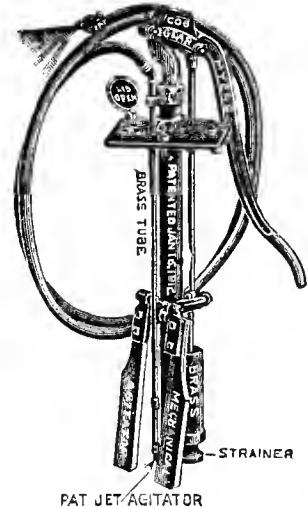
By a one-third turn of the handle the spray can be adjusted from a long distance spray reaching the top of the tree to an extremely broad spray sufficient to cover the entire tree or shut off entirely.

## No. R-318-B MYERS IMPROVED BARREL SPRAY PUMP

The entire Pump sets in the barrel containing the liquid and is bolted fast to the staves at the upper end. The working parts being all submerged, the possibility of losing priming is done away with. Valves and seats are ground brass, brass cylinder and discharging pipe, patent expansive bucket, large 30-inch air chamber Vermorel or Bordeaux nozzle, mechanical agitator and pipe extension. Price, including barrel, \$20.00.

If pipe extension is not wanted, deduct 75c.

If Barrel not wanted \$3.50 Less.



## THE MYERS COMPRESSED AIR SPRAYER

Fig. 1862 illustrates the Myers Pneumatic Sprayer as built to meet the demands for this style of Spray Pump. It is made of heavy galvanized iron with 1 3/4 inch brass tube cylinder attached to the can by means of a heavy brass screw nut. The small diameter cylinder operates easier than larger sizes. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut. By means of these lugs and handle the nut can be screwed tightly to the top of the tank, and at the same time lock the plunger in opposition which also permits of the tank being carried by the handle when desired. In the Myers construction we have done away with the large butterfly nuts as

used on others, which are very objectionable owing to the fact that it is not only difficult to screw the cap perfectly tight but also very injurious to the hands in pumping.

The Handle is D-shaped in form, and large enough to be operated by any one with perfect comfort.

The Nozzle is one of the special features of this Sprayer. By means of the small lever the spray can be adjusted from a broad fine spray, covering the ordinary distance into a complete long distance spray throwing water 25 feet, by means of which the top of any small fruit tree can be reached. This style nozzle is a patented article used only on Myers Pneumatic Sprayers. Fill 3/4 full of water at starting—for best results.

The Valve, a very important part of a pump of this kind, is simple and effective. It is made of a pliable rubber disk supported by metal plate held in position by a brass coil spring and brass stud, on which it operates. Can be removed instantly.

No. 2240 —Galv. Tank, 2 1/2 gallons capacity..... \$4.75  
No. 2240B—Brass Tank, 2 1/2 gallons capacity..... 8.50  
No. 2242 —Galv. Tank, 4 gallons capacity..... 5.50  
No. 2242B—Brass Tank, 4 gallons capacity..... 9.50

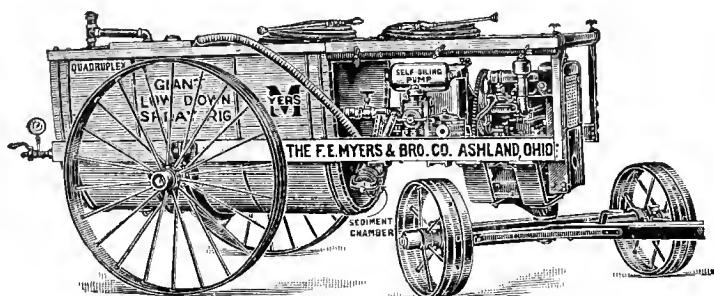
It is furnished with four separate spray discs designed to deliver the entire capacity of the pump, either 4, 6, 8 or 10 gallons per minute.

One-third turn of the handle adjusts the spray from a wide open nozzle to a complete shut-off of the mixture.

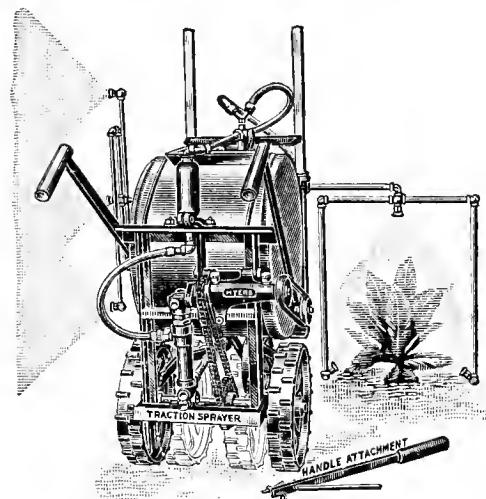
Price Without Hose Swivel..... \$6.50  
Price With Hose Swivel..... 7.50

## THE MYERS GIANT DUPLEX POWER SPRAY RIG

The Automatic Pressure Governor insures safety. Secures uniform pressure and eliminates unnecessary wear. Relief valves not required.



### MEYERS ONE-HORSE TRACTION SPRAYER FOR TOBACCO, POTATOES, BERRIES, ROW CROPS, FLOWERS OR NURSERY SPRAYING



Two rows. Three or one nozzle to the row. Traction wheels are 14 inches in diameter by 3-inch face, with heavy zigzag lugs. The pump is all brass, double-acting, ball valves and quick removable strainer. The boom is adjustable in height and width, with three nozzles to the row—one overhead to cover the upper side of the leaves, and one on each side of the plant near the ground spraying upward at an angle covering the under side of the leaves and stems.

#### PRICES

No. 1075 Sprayer complete with 25-gallon tank, rotary agitator and 2-row boom with 3 nozzles to the row.	\$95.00
No. 1075½—Same as No. 1075, except boom, which has 1 overhead nozzle to each row.	90.00
Handle attachment with 25 feet of ½-inch, 5-ply discharge hose with 36-inch brass pipe extension and nozzle; extra equipment.	6.00

### MYERS HANDY PORTABLE SPRAYER

No. R336½B

A handy and convenient Sprayer, made for general use about the home, greenhouse or orchard. For whitewashing fences, barns, chicken coops, cellars, etc., it is unexcelled. The pump is similar to our No. R318B fitted with cog gear handle and dasher agitator. It is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank held in position by one thumb screw.

Price complete as shown in illustration, with 15 feet ½-in. 5-ply discharge hose, 8 foot extension rod and vermorrel nozzle.

Price \$25.00



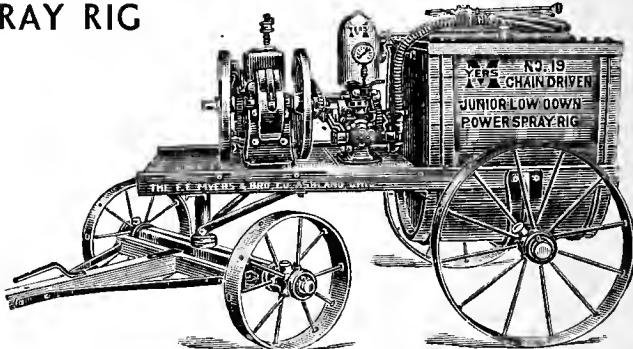
The Myers Giant Duplex Power Spray Rigs are fitted with cypress tanks from 100 gallons to 300 gallons capacity, Rotary Agitator, and ALL STEEL SHORT TURN TRUCK. It can be either belt driven, chain driven or direct geared. Pressure from 250 pounds to 300 pounds recommended. The rear axle is made of 1½-inch round steel with drop center, circulating under side of the Spray Tank, and is attached to the main sils by heavy ribbed cast brackets, making the most rigid form of construction. The Front Axle is made of 4-inch channels trussed together and thoroughly braced.

The frame is made of 4-inch channel steel with heavy steel cross members. Hot riveted.

The Pump is the Myers Self-Oiling with Myers Pressure Regulator and Unloading Valve. This is an ideal Power Spray Rig which we highly recommend for those wishing a Power Spray.

Prices furnished upon application.

### THE MYERS JUNIOR LOW DOWN POWER SPRAY RIG



With all steel short turn truck. Double acting pump, chain driven. 46 in. tread, 43 in. high, 72 in. long.

Specially designed for the farmer with a small orchard who raises fruit for his own use, or for Spray Rings or Community Spraying where several farmers combine to do their own spraying or hire one of their number to spray for all.

The Myers Junior Low Down Power Spray Rig as furnished ready for the field. It has a 100 gallon Cypress Tank and Semi-Rotary Agitator.

Wheels: Rear, 30x4 in. face; front, 20x4 in. face; 46 in. tread. Front wheels pass under the frame permitting the shortest possible turn. Has drop rear axle made of 1½ in. shafting, thoroughly braced, supporting the tank direct. The front axle is made of Steel Channels trussed together and thoroughly braced. Equipped as Follows:

One Myers Spray Gun: 50 feet of ½ in. Myers High Pressure Spray Hose with Fittings complete. Double Cut-off for discharge lines. Pressure Gauge, Agitator, Relief Valve, Strainer and Suction Hose. Prices on application.

### MYERS COG-GEAR DOUBLE ACTING SPRAY PUMP



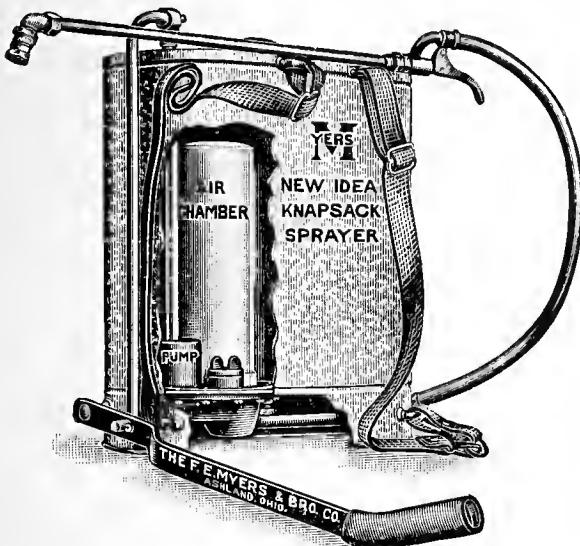
Complete outfit, mounted on platform with 50 gallon barrel and Mechanical Agitator.

With brass valves and ground bevel brass seats, 2 inch seamless brass removable cylinder, hemp packed plunger and double lever shut-off discharge.

No. R316B, Pump complete, 50 gallon barrel mounted as shown, with pressure gauge, one 15 foot lead of ¾ inch 7-ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 foot pipe extension with lever shut off and mechanical agitator. Price, \$54.00.

No. R316C, Pump complete, 50 gallon barrel mounted as shown, with pressure gauge, two 15 foot leads of ¾ inch 7-ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 foot pipe extensions with lever shut-offs and mechanical agitator. Price, \$60.00.

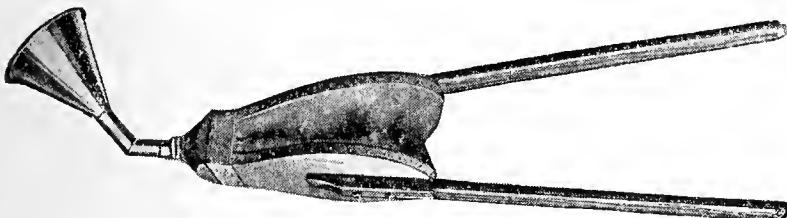
## THE MYERS NEW IDEA KNAPSACK SPRAY PUMP



No. 1380 illustrates the latest design. It is equipped with a real all brass pump (no diagram) with a JET AGITATOR that keeps the liquid thoroughly mixed. The pump is fitted with a large air chamber and brass ball valves, is quickly detached from the tank for inspection or repairs. Tank capacity 4 gallons, with a tight cover and removable strainer. Fitted with  $\frac{3}{8}$  inch hose, lever shut-off cock, special brass pipe extension with 45 bend, and Vermorel spray nozzle. Weight 15 pounds.

Price \$12.50

## THE ACME POWDER GUN

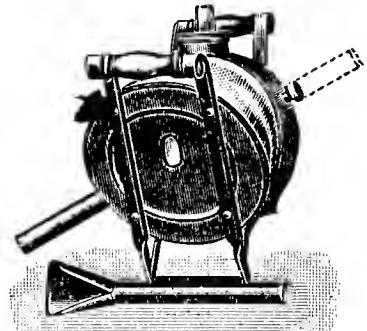


Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Handles of convenient length and bellows of fine russet leather. A very practical and convenient way of applying Paris Green, Lice Killers, Insect Powder, etc. Parcel post weight 2 pounds.

Price \$1.50; by P. P. \$1.60

## PLATZ GREEN HAND DUSTER

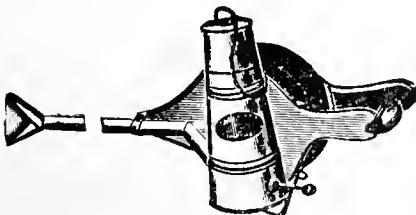
Light  
Compact  
Sturdy  
Efficient  
Capacity:  
2-4 pounds  
36-inch  
Extension  
with  
Spreader  
Large  
Powerful  
Bellows



Easy to work and regulate. Practically indestructible—wearing parts can be readily replaced. Excellent for dusting either hill crops or underside of foliage. Handles any dust that can be used in larger outfits.

Price \$6.00

## PLATZ FAMOUS HAND DUSTER



Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches. Compact and efficient.

Capacity, one pound.

Price \$5.00

## THE MYERS GIANT PORTABLE SPRAYER

Transported by Hand or Horse Power

Suitable for use in small orchards, vineyards or truck fields, barn yards, etc. A very rugged outfit built for hard service. Wheels, 36 inches in diameter, 3-inch tire, 30-inch tread. Width over all 38 inches.  $1\frac{1}{2}$  inch Steel Drop Axle bent to fit the curve of the 50 Gallon Galvanized Steel Barrel to which it is securely bolted by means of heavy brackets, which also carry the hand bale. Has Six Gallon Air Chamber, which assists in keeping up a steady spray with less

effort by the operator.

The pump is our No. R308B with Cog Gear Handle,  $2\frac{1}{2}$  inch cylinder. A real Spray Pump.

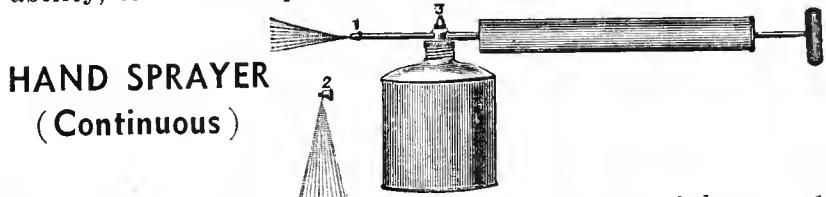
No. R340B—Myers Giant Portable Sprayer, complete as shown in Fig. 2408, fitted with No. R308B Pump, Pressure Gauge, Mechanical Agitator, 15 feet of  $\frac{3}{8}$  inch 7 ply Discharge Hose, 8 foot Pipe Extension with lever cut-off and Fembro Spray Nozzle Price \$72.00  
No. R341B—Same as R340B, except it has Pump No. R318B and 15 feet of  $\frac{1}{2}$  inch Five Ply Hose 60.00

## IMPROVED HAND SPRAYER



It is adapted for the destroying of insects, applying disinfectants to buildings, bushes, etc.; also for applying fly chasers to animals and applying light floor oil.

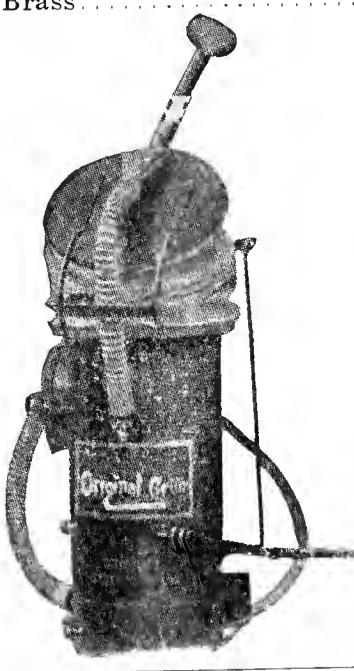
The Improved Sprayer is absolutely the best constructed Sprayer of its class ever offered. For strength and durability, it has no equal. Price 50c, by Parcel Post 60c



Made of the best material in galvanized and brass. 1 quart capacity, has two sprays, one straight and one 45 angle, to allow spraying under leaves. Hand soldered. No leak.

Galvanized..... \$1.50, by Parcel Post \$1.60  
Brass..... \$1.75, by Parcel Post \$1.85

## PLATZ GREEN DOUBLE ACTION DUSTER



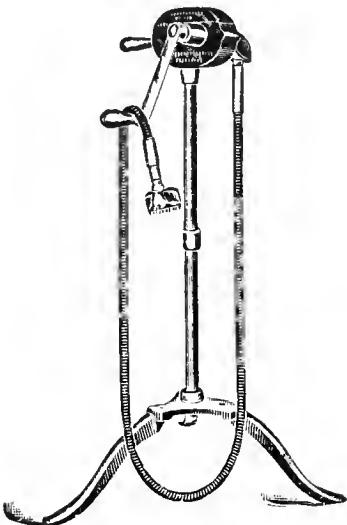
The Double Action Duster is identical with the Single Action in construction with the exception of the double bellows, which insures a more steady flow of dust with the same ease of operation, and is better adapted for dusting a denser growth of foliage.

Net weight, 17 pounds.  
Capacity, 20-30 pounds.

Price \$20.00

Single Action Duster, \$16.00

## Stewart No. 1 Ball Bearing Clipping Machine



This is the most extensively used of all clipping machines. In every country where clipping is done, it is the preferred hand power machine. Ball bearing construction makes it easy to turn. Gears cut from solid steel, run in a bath of oil and are enclosed in a metal case, protected from dust, dirt and moisture. Wide spread tripod base with substantial tubular upright. The shaft and chain, especially designed for the No. 1, are six feet in length for convenient clipping on any part of an animal.

Stewart No. 1 Ball Bearing Hand Power Clipping Machine complete with shaft, chain and Model D Clipping Head, Price \$12.50.

### SHEEP SHEARING ATTACHMENT

For use on the No. 1 or No. 10 Horse Clipping Machine. This attachment consists of complete No. 7 Stewart Shear Head, shaft jointed 42 inches long, complete with knives. Price \$16.00.

#### Scalder

Dimensions—6 feet long, 2½ feet wide, 1½ feet deep.  
Shell—Made of No. 12 gauge steel.

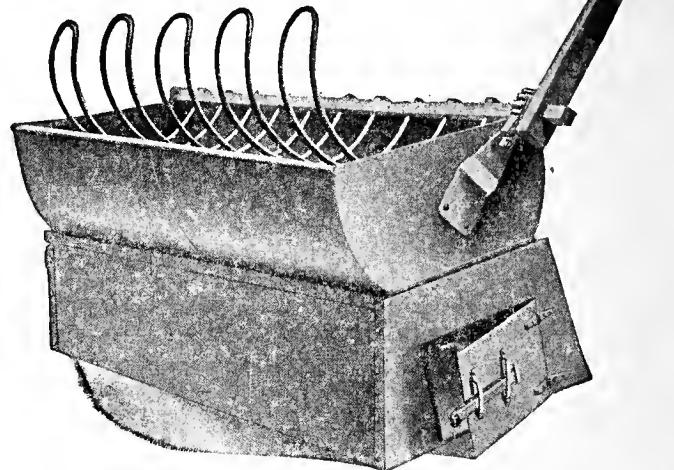
Dumping Rack—Made of 1¾ inch square steel with bars of ¾ inch round iron.

Gear and Ratchet—Heavy cast iron.

Weight—325 pounds.

Finished with a coat of high grade asphaltum.

## Improved Bausman Hog Scalder



The difficulties in scalding hogs have been many. No longer are you compelled to resort to hoisting appliances. No longer do you have to lift a hog from the scalding bath by the old laborious methods.

In the new Improved Bausman Hog Scalder you have an appliance that will save half the time and most of the hard labor in connection with hog-killing.

#### SPECIFICATIONS

##### Fire Box

Dimensions—6 feet long, 18 inches high, 30 inches wide at bottom, 22 inches wide at top.

Material—No. 12 gauge steel.

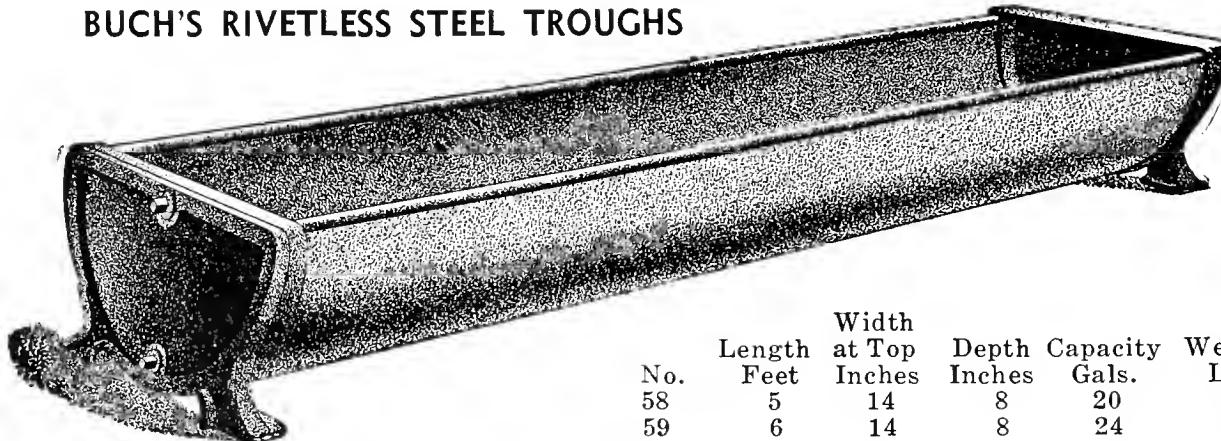
Weight—120 pounds.

Finished with a coat of high grade asphaltum.

Provided with a Vent for pipe and a roomy opening for fuel as illustrated.

Price Complete with Firebox ..... \$55.00  
Scalder less Firebox ..... 40.00

### BUCH'S RIVETLESS STEEL TROUGHS



Made of 12 gauge Black Tank Steel—Cast Iron Heads—No rivets to rust out—No solder joints to cause leaks—Freezing will not crack or burst it—Edges fitted with steel tubing—No sharp edges to injure stock.

Following sizes carried. Special sizes made to order.

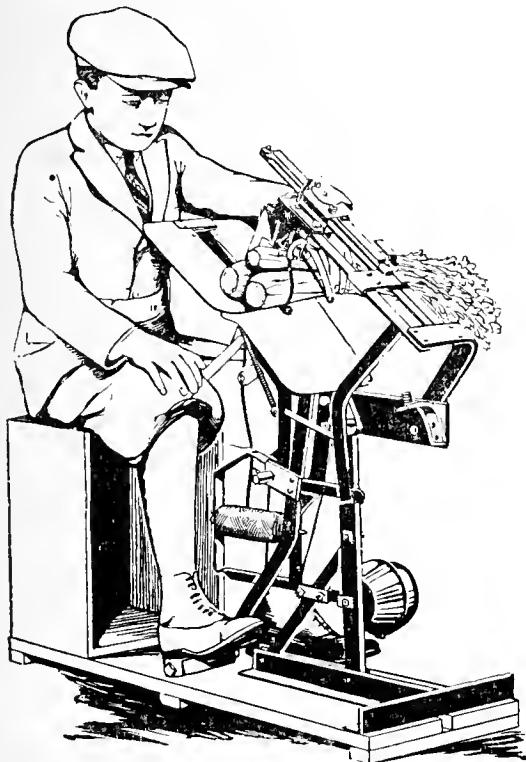
No.	Length Feet	Width at Top Inches	Depth Inches	Capacity Gals.	Weight Lbs.	Price
58	5	14	8	20	65	\$7.85
59	6	14	8	24	76	9.60
60	8	14	8	32	93	11.70
61	10	14	8	40	119	14.50
69	5	16	9	30	70	9.00
70	6	16	9	30	85	11.00
71	8	16	9	48	111	14.00
72	10	16	9	60	127	16.65
80	5	18	10	40	91	10.35
81	6	18	10	48	102	12.15
82	8	18	10	64	122	15.50
83	10	18	10	80	141	19.50
84	12	18	10	96	168	23.25

### CAST IRON HOG TROUGHS



No seams for food to lodge in, and, being easy to clean, there is no likelihood of foul, unhealthy odors. There is no danger of bursting from freezing, and the price is within the reach of all. These Troughs are very popular with all who use them. The width of these Hog Troughs at the top is 12 inches and at the bottom 2 inches; the depth is 6 inches, and the capacity per foot is 2 gallons. They are made in lengths as follows: 2, 2½, 3 and 3½ feet, and so on, every half foot, up to 8 feet. Price, per foot, 90c.

## FELIN'S VEGETABLE TYING MACHINE

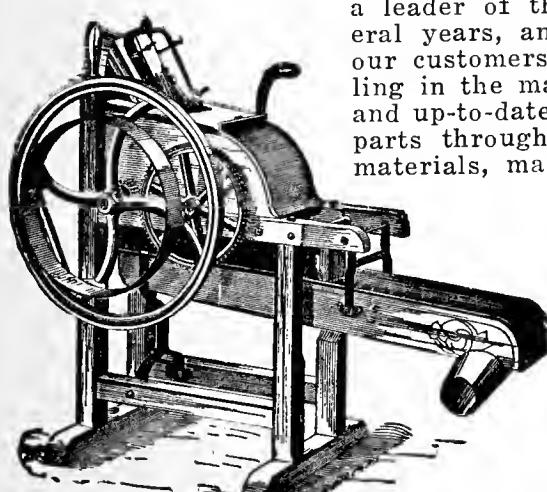


It is a well known fact, that any mechanical device designed to save labor and time on the farm, is a real money maker for the farmer. This machine for bunching and tying vegetables, such as beets, carrots, radish, parsnips, etc., will save both time and money. Well constructed of good material, easily operated by any twelve-year-old boy. Will tie bunches any size from one-quarter to five inches. Automatically adjusted to any size bunch. Special literature upon request.

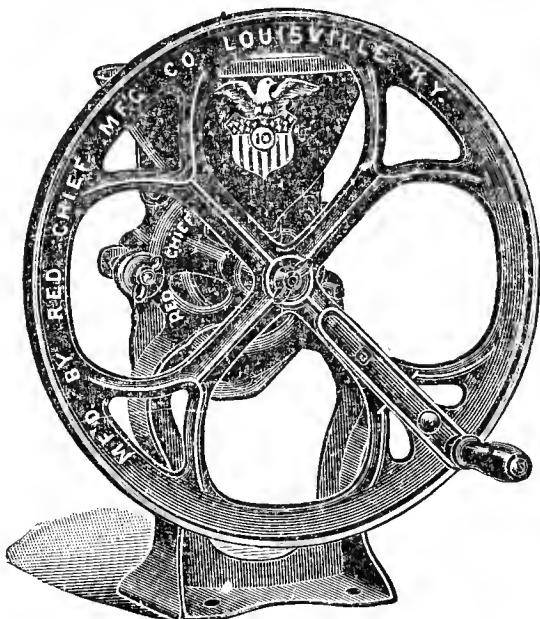
Price ..... \$ 70.00  
Electric Power Bunch Tyer..... 142.50

## "BUCH'S No. 7" DOUBLE SPOUT CORN SHELLER

While this sheller is used principally as a hand machine, still it is admirably adapted for light power and is provided with a pulley just for that purpose. We have made a leader of this Sheller for several years, and recommend it to our customers as a Sheller excelling in the matter of convenience and up-to-date workmanship. The parts throughout are of selected materials, made extra heavy and very strong. Well put together and nicely finished. Cold rolled steel shafts and steel shaker pitman. Journal boxes are made in two parts and can be adjusted to take up wear. This Sheller does rapid work, having a capacity of 500 to 600 bushels per day. Price, with shaker, \$34.00.



## "RED CHIEF" GRINDING MILLS

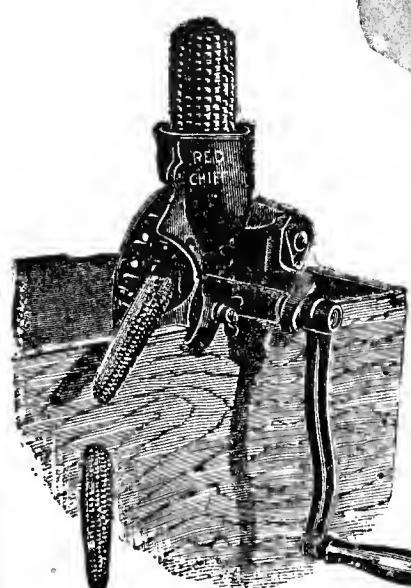
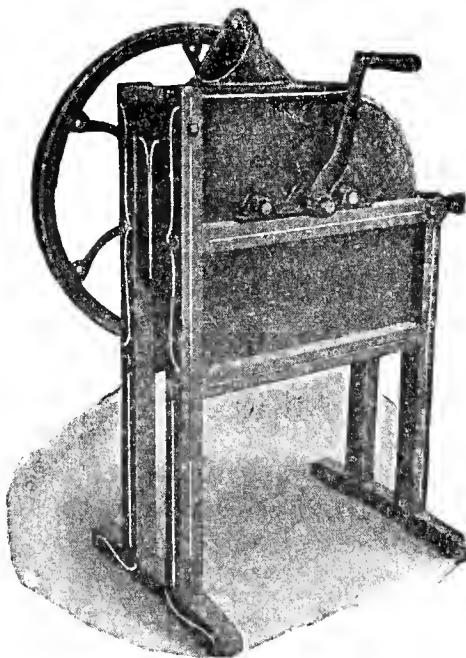


Does rapid work. Will grind meal or crack the grain any desired size. Strong, durable and neatly made.

No. 1—With flywheel .....	\$ 3.50
No. 2—With flywheel .....	5.00
No. 5—Without stand .....	6.50
No. 10—With stand .....	8.50
No. 20—Combined Hand and Power.....	19.00

## "BUCH'S No. 3" SINGLE SPOUT CORN SHELLER

This very popular Sheller is well made, light running, and will give good service. It has large balance wheel, with heavy rim and wrought-iron spokes. The journal boxes are engine bored and bolted to hardwood frames. Handsomely finished. Separates corn from cob. With sieve, \$15.00.



## "RED CHIEF" CORN SHELLER

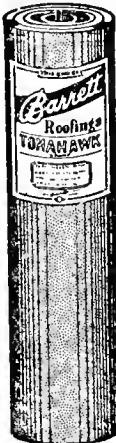
This is undoubtedly the best Sheller of its class. It has a suitable device for adjusting it to take either large or small ears, and do good work with either. It readily attaches to barrel or box, and is just the thing for persons who have but a small quantity of corn to shell. Price, \$2.25.

## BARRETT ROOFING, CEMENTS AND PAINTS



### DEPENDABLE ROLL ROOFINGS FOR EVERY PURPOSE AND EVERY PURSE

There's a Barrett Roll Roofing definitely right for every purpose. If you want color on the roof, Barrett Mineral-Surfaced Roll Roofings surfaced with firmly embedded minerals in non-fading colors, red, green, blue-black, emerald green, Spanish red or variegated—provide a wide variety of styles to choose from. All are built to give just the sort of service they are recommended for—with a degree of certainty no other roofing equals.



#### TOMAHAWK ROOFING

A low priced roofing of good value. 36 inches by 36 feet.  
Weights  
Heavy—55 lbs. per roll.....\$2.25  
Medium—45 lbs. per roll.....1.85  
Light—35 lbs. per roll.....1.50

#### PANAMOID ROOFING

Good quality, medium-priced roofing, mica surfaced on both sides. 36 inches by 36 feet.  
Weights  
Super—75 lbs. per roll.....\$3.15  
Extra Heavy—65 lbs. per roll.....2.75  
Heavy—55 lbs. per roll.....2.35  
Medium—45 lbs. per roll.....2.00  
Light—35 lbs. per roll.....1.50

#### EVERLASTIC ROLL ROOFING

The standard of smooth-surfaced roofings. 36 inches by 36 feet.  
Weights  
Extra Heavy—70 lbs. per roll.....\$3.25  
Heavy—60 lbs. per roll.....2.85  
Medium—50 lbs. per roll.....2.35

#### Underwriters' Label.

#### VITEX ROLL ROOFING

A smooth-surfaced roofing for good service at a medium price. 36 inches by 36 feet.  
Weights  
Extra Heavy—65 lbs. per roll.....\$3.10  
Heavy—55 lbs. per roll.....2.65  
Medium—45 lbs. per roll.....2.15  
Light—35 lbs. per roll.....1.65

#### Underwriters' Label.



#### LIQUID ELASTIGUM

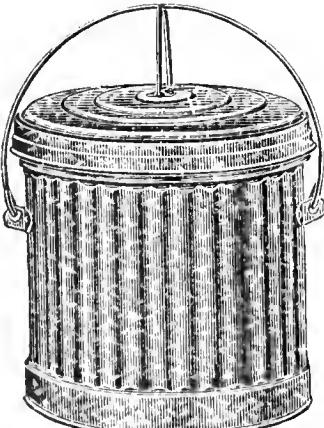
#### MAKES OLD ROOFS LIKE NEW

For effective repairs on metal, or smooth surfaced composition roofs, Liquid Elastigum proves invaluable and extremely economical. What could be quicker or more effective than brushing on Liquid Elastigum; a tough, elastic coat of bitumen reinforced with long fibers of asbestos. It spreads on easily and freely, yet develops into a seamless roof covering, of heavier "body," than just a roof paint. Dried-out roofings that seemingly have out-lived their usefulness, can be given additional years of life, for Liquid Elastigum heals the weak spots, postponing indefinitely the very considerable expense of re-roofing.

#### Prices:

1 gal. cans, ... .62

5 gal. cans, ... .55



## GARBAGE CANS

Heavy galvanized. Deep vertical corrugations. Seamless lock cover. Hot dipped.

Size .....	6 gallons
Weight each .....	5 3/4 lbs.
Price .....	85c

No. 33	8 1/2 gallons
	8 1/4 lbs.
	9 3/4 lbs.
	95c

No. 34	10 gallons
	9 1/4 lbs.
	\$1.10

## SAFETY RUBBISH BURNER

Japanned Black

Size .....	16 1/2" x 27"
Weight each .....	15 lbs.
Price .....	\$2.75

No. 4	20" x 23"
	25 lbs.
	\$3.25



### EVERJET ELASTIC PAINT

#### FOR RUST PREVENTION

Everjet Paint has been widely recognized for many years by the largest transportation and industrial concerns as a most dependable—a most economical—a most durable protection against rust. The continued use of this product by such concerns of highly organized efficiency is most conclusive testimony as to the real value of this time tried money saver. Being highly elastic it expands and contracts with all temperature changes, and because of its resiliency it will not crack, check, peel or dry out. It pays for itself many times over by reducing expense for avoidable repairs.

#### Prices:

1 gal. cans	per gal... .75
5 gal. cans	per gal... .62



## PLASTIC ELASTIGUM

#### STOPS LEAKS EVERYWHERE

A black, plastic asbestos cement. Very useful as a leak-proofing material around chimneys, pipes, roof vents and gutters, watering troughs and all other jobs of a similar nature. Provides a good waterproof bed for copings, sills, window frames and for filling expansion joints.

#### Prices:

25 lb. cans,	per lb. .10
5 lb. cans,	per lb. .12
1 lb. cans,	per lb. .15



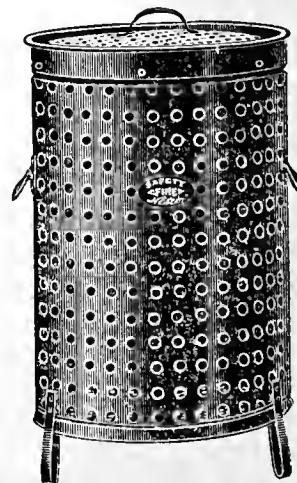
## CREONOID

Indispensable on the farm. Kills insect pests. Protects livestock. Blood-sucking flies and other insect pests reduce milk production from 20% to 50%. It is amazing that the dairy farmer calmly accepts such handicaps. Your cows deserve the inexpensive protection which Barrett Creonoid gives. Your pocketbook deserves the added production-profits possible from every cow. Do the sensible thing—use Creonoid. All cows treated with a light, misty spray of Creonoid have ample protection from flies.

Destroy Poultry Mites by spraying your poultry houses with Creonoid. One or two sprayings each month will protect your hogs from all tormenting parasites. Horses sprayed with Creonoid will be protected from flies and other blood-sucking insects and will retain greater energy for work. Get fullest value from their feed.

#### Prices:

5 gal. cans,	weight 50 lbs.....per gal. .85
1 gal. cans,	weight 9 1/2 lbs.....per gal. 1.25



## TILLEY LADDERS

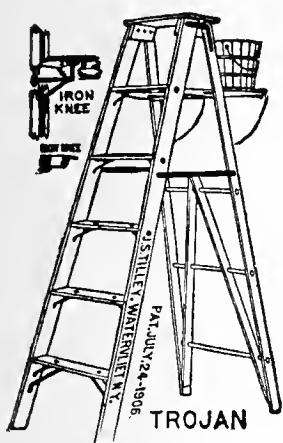
NOT A CHEAP LADDER, BUT THE BEST LADDER

### TROJAN STEP LADDER

The strongest and best braced step ladder of its weight made. A combination knee, tie and angular brace under each end of each step, which passes down through the step, out through the sides and riveted at both ends forms a positive tie support and angular brace. The back legs fold over side of front, making a compact-ladder particularly adapted for decorators and paperhangers.

Prices:

4 foot	....	\$2.25	8 foot	....	\$4.50
5 foot	....	2.85	10 foot	....	5.65
6 foot	....	3.40	12 foot	....	6.75

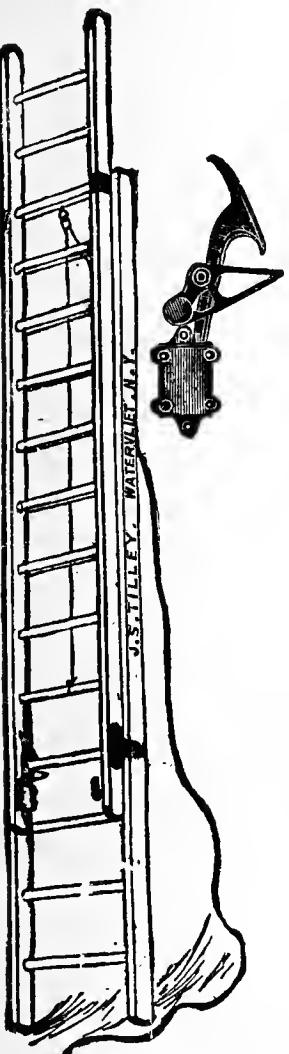


### TILLEY SPRING LOCK EXTENSION LADDER

These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling sections, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

Prices:

20 ft.—Two 10-ft. Sections, Extends to 17 ft.	....	\$ 8.85
24 ft.—Two 12-ft. Sections, Extends to 21 ft.	....	10.60
28 ft.—Two 14-ft. Sections, Extends to 25 ft.	....	12.40
30 ft.—Two 15-ft. Sections, Extends to 27 ft.	....	13.25
32 ft.—Two 16-ft. Sections, Extends to 29 ft.	....	14.25
36 ft.—Two 18-ft. Sections, Extends to 33 ft.	....	16.80
40 ft.—Two 20-ft. Sections, Extends to 36 ft.	....	18.75
44 ft.—Two 22-ft. Sections, Extends to 40 ft.	....	21.75
48 ft.—Two 24-ft. Sections, Extends to 44 ft.	....	29.60
52 ft.—Two 26-ft. Sections, Extends to 47 ft.	....	32.10
60 ft.—Two 30-ft. Sections, Extends to 55 ft.	....	53.50



Tilley Liberty Extension Spread Bottom Ladder or with Parallel Sides.

Prices:

20 ft.—Two 10-ft. Sections, Extends to 17 ft.	....	\$ 8.35
24 ft.—Two 12-ft. Sections, Extends to 21 ft.	....	10.00
28 ft.—Two 14-ft. Sections, Extends to 25 ft.	....	11.75
30 ft.—Two 15 ft. Sections, Extends to 27 ft.	....	12.50
32 ft.—Two 16-ft. Sections, Extends to 29 ft.	....	13.40
36 ft.—Two 18-ft. Sections, Extends to 33 ft.	....	15.30
40 ft.—Two 20 ft. Sections, Extends to 36 ft.	....	17.00

### MICA AXLE GREASE

Mica Axle Grease is the best that skill and science can produce. It is made of the best grease stock and ground mica, which fills up the pores and crevices in the axle and forms a hard, bright, smooth coating, thus reducing friction to the minimum. Mica Axle Grease never wears off, and it leaves no gum or paste on the spindles.

1-lb. box	....	\$ .15
15-lb. bucket	....	1.50
25-lb. bucket	....	2.50



25-Pound Pail

## STANDARD HAND SEPARATOR OIL

(Light Yellow in Color)



Standard Hand Separator Oil is a high-grade lubricant especially adapted for use on cream separators. It will not gum, rust or corrode the bearings.

It feeds freely into the closest bearings and insures the perfect lubrication that is essential to the free spinning of the bowl and the complete separation of cream from milk. It lessens the driving effort and lengthens the life of the separator.

1-gal. can ..... \$1.25

## THRESHER HARD OIL

A lubricant adapted for general use on crank pins, shafting, loose pulleys, valve motions, eccentrics, slides, main journals, etc. For use in spring or compression cups or in open boxes.

Made in different consistencies, varying from No. 0, which is very soft, to No. 5, which is very hard, the intermediate grades being Nos. 1, 2, 3, 3½ and 4.

1-lb. can	....	\$ .25
5-lb. can	....	1.00
10-lb. can	....	1.80
25-lb. can	....	4.50



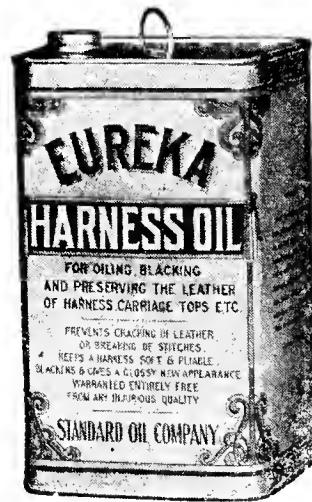
## EUREKA HARNESS OIL

(Very Dark Blue)

Eureka Harness Oil is specially manufactured for oiling, blacking and preserving all kinds of leather, especially harness, automobile and carriage tops, etc.

In Eureka Harness Oil we offer the best harness oil obtainable. It is superior to all neatsfoot oils, because it is free from acids and will not become rancid. It penetrates the leather and prevents the cracking of leather and breaking of stitches; makes leather water-proof, and it lasts much longer and goes farther than any other oil.

1-gal. can ..... \$1.25

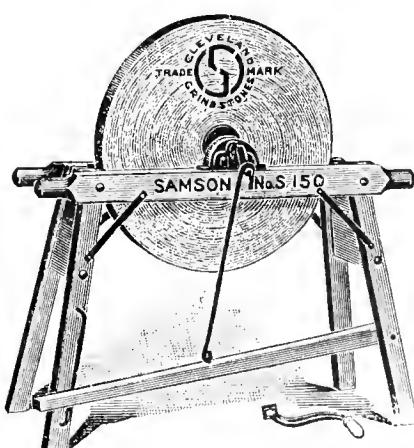


1 Gallon

## WOOD FRAME GRINDSTONE

Made of good strong material. Stone of best berea grit. Hand or foot power.

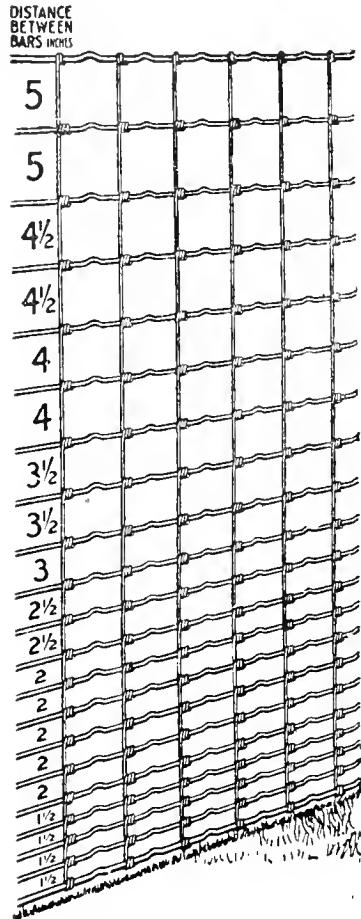
Price ..... \$9.00



## STEEL FRAME BALL-BEARING GRINDSTONES

Bicycle type with foot pedals very strongly built.  
Price ..... \$9.00

### AMERICAN POULTRY, GARDEN AND RABBIT FENCE

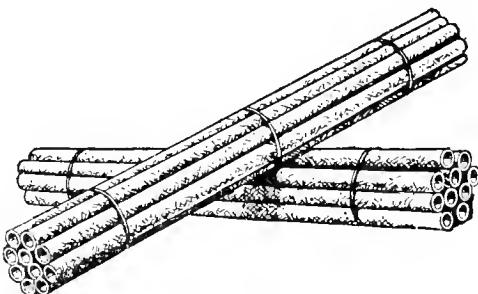


Top or bottom boards not required with this Poultry Fence on account of the close spacing between bottom line wires. An ideal chicken and rabbit-proof fence. Can be stretched like a field fence. Made in three sizes, 35 inches, 48 inches and 58 inches high. Stay wires 6 inches apart. Furnished in 10 and 20 rod rolls.

Top and bottom wire No. 11. Intermediate and stay wires, No. 14½.

No.	Bars	Height	Price Per Rod
2158	21	58 in.	70c
1948	19	48 in.	64c
1635	16	35 in.	50c

### AMERICAN TUBULAR STEEL FENCE POSTS (Galvanized)



The use of Steel fence posts has become so general during recent years that there is no longer any question but what they are the only solution of the fence post problem.

The American Steel Fence Post is stronger, heavier—bigger and better in every way. Can be furnished in Galvanized at slightly higher price.

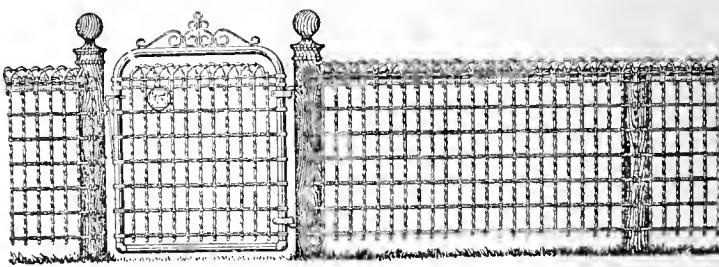
Packed 10 to a bundle for shipping.

#### Price:

	Line Post	End Post	Corner Post
	Jr.	Jr.	Jr.
6 feet .....	\$ .60	\$1.50	\$2.20
6½ feet .....	.65	....	....
7 feet .....	.71	1.75	....
7½ feet .....	.74	....	....
8 feet .....	.78	2.00	2.90

Driving Caps for Line Post ..... \$ .50  
Ornamental Top for Line Post ..... .25

### CYCLONE LAWN FENCE AND GATES



The extra-deep crimp of the picket wires forms an absolute lock for the cables, preventing their being pushed up or down on the pickets.

Horizontal cable wires are twisted with a triple twist between pickets. The cable twist is reversed on the pickets instead of between them, forming an absolute lock on the pickets. Cyclone Fence cannot sag; the cables with reverse twists make proper allowance for contraction and expansion of wire due to atmospheric changes.

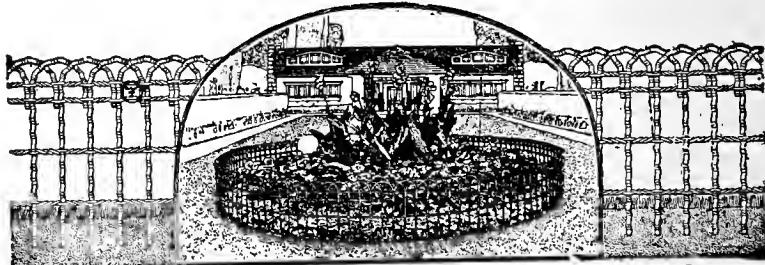
Cyclone Fabrics are adjustable to any uneven ground. Each cable wire is stretched to the proper tension independently of the others so the pickets will always stand in an upright position.

Every roll of Cyclone Fence passes rigid inspection and must conform to our high standard of perfection. Any one can easily erect Cyclone Ornamental Lawn Fence without any previous experience. With ordinary wood posts and 2x4 top rail, a very attractive, substantial, permanent fence is secured at a surprisingly low cost.

36 inches high—per foot.....	\$ .10
42 inches high—per foot .....	.11
48 inches high—per foot .....	.12

See page 81 for prices on Gates.

### CYCLONE FLOWER BED GUARD



Made in two sizes, 18 and 22 inches. Requires no posts. Cut any length to fit any flower bed or border.

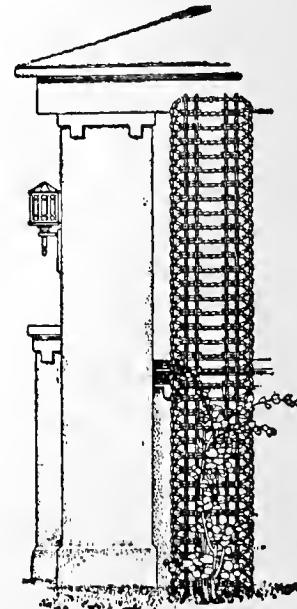
18 inches high—per foot.....	\$ .07
22 inches high—per foot.....	.08

### CYCLONE TRELLIS

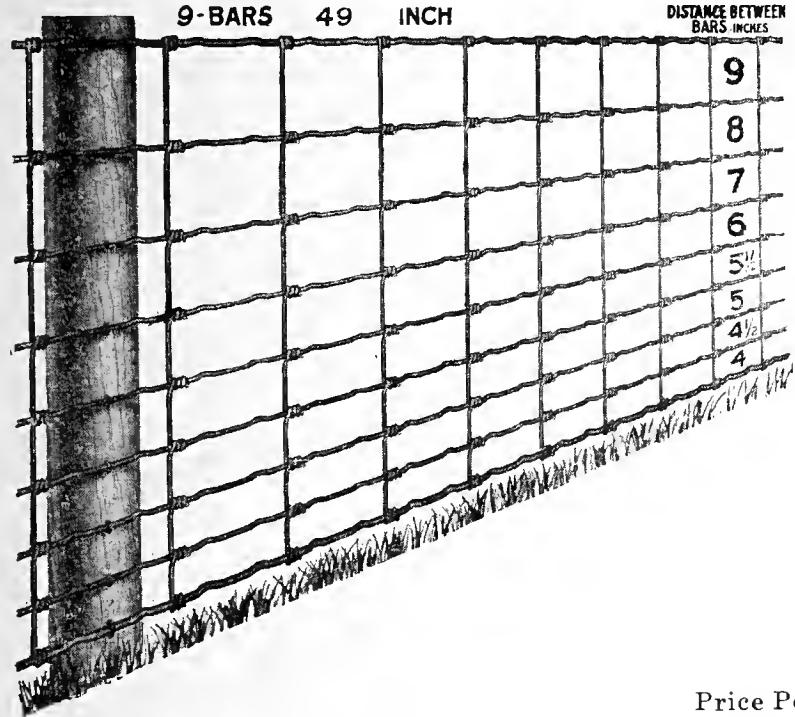
Adds to the beauty of any home, very attractive in appearance. Made of very heavy galvanized wire neatly woven in such a way as to make a strong and durable support for the heaviest growth of vine.

Cut to any desired length.

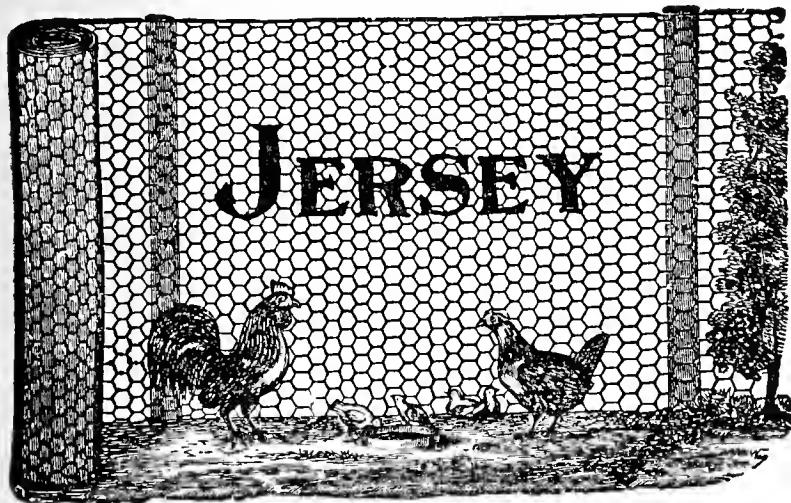
18 inches .....	\$ .08
24 inches .....	.09



## AMERICAN FARM FENCE



Design	Bars	Height	Stays	Price Per Rod
726	7	26-inch	6-inch	\$ .50
726	7	26-inch	12-inch	.38
635	6	35-inch	12-inch	.38
845	8	45-inch	12-inch	.49
949	9	49-inch	12-inch	.54
1047	10	47-inch	6-inch	.75
1047	10	47-inch	12-inch	.56



## DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20 Double-Twist 2-inch Mesh, thoroughly galvanized. Sold in bales of 150 running feet.

(Galv. After Weaving)

No.	Ins. Wide	Sq. Feet	Retail Price Per Bale
20	12	150	\$1.18
20	18	225	1.61
20	24	300	2.04
20	36	450	2.88
20	48	600	3.72
20	60	750	4.55
20	72	900	5.91

## ONE INCH MESH

(Galv. After Weaving)

No.	Ins. Wide	Sq. Feet	Retail Price Per Bale
20	12	150	\$2.44
20	18	225	3.51
20	24	300	4.59
20	36	450	6.67
20	48	600	8.63
20	60	750	10.71
20	72	900	12.93

## Price—Cut Lengths

1 in. Mesh.....  
2 in. Mesh.....

2½¢ per square foot  
1½¢ per square foot

Made of large, strong, high-grade steel wire, heavily galvanized. Amply provides for expansion and contraction. Is practically everlasting. Never goes wrong, no matter how great a strain is put upon it. Does not mutilate nor injure stock.

## TURNS CATTLE, HORSES, HOGS AND PIGS

Every Rod Guaranteed by us and guaranteed by the manufacturers. Call and see it. We can show you how it will save you money and fence your fields so they will stay fenced.

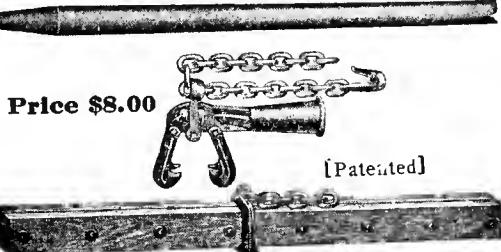
## MATERIAL

**Hard, Stiff Steel**—The development of American Fence, the years of experiment and hundreds of thousands of dollars that have been put into the work of perfecting machinery and producing the grade of special steel that makes American Fence what it is today would be a long story. By the use of this special steel the value of American Fence to the user is increased many fold, and we firmly believe it to be as near absolute perfection as can be attained, or the necessities of the case demand. Wire drawn from this steel while hard is not brittle. It is stiff and springy, but pliable enough to be nicely spliced. There is such a distinction as live steel and dead steel. Every wire in American Fence as now made is a live wire, doing business all the time, always ready for emergencies and absolutely reliable.

In the above design the No. 9 wire is used for top and bottom bars, No. 11 wire for intermediate bars and stays. Should you desire any other style Fence, write for booklet.

## THE LOTT STRETCHER

The simplest, cheapest and most efficient tool ever gotten out for stretching fence. It is strong enough to stretch from 10 rods to a mile of fence at a time. Anybody can operate it.



Price \$8.00

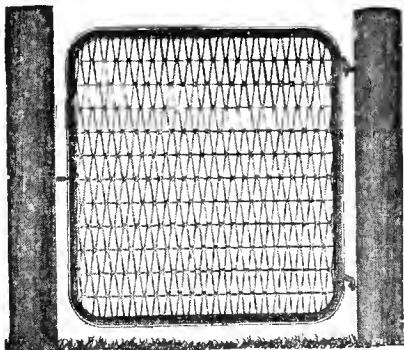
[Patented]

## TOWNSEND WIRE STRETCHER—\$1.50

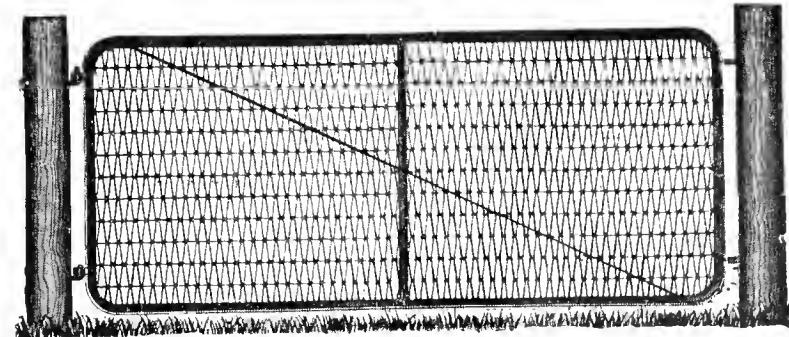
**WIRE STAPLES**—  
Broad and narrow.  
**BARB AND RIBBON WIRE**—Price on application.

## AMERICAN WALK GATE

3 feet by 50 inches, \$3.50.  
3 feet by 58 inches, \$3.75.  
3½ feet by 50 inches, \$4.00.  
3½ feet by 58 inches, \$4.25.



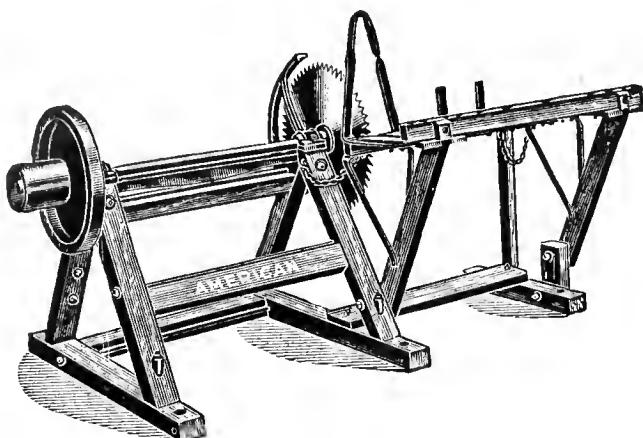
## AMERICAN SINGLE DRIVE GATE



10 feet by 50 inches..... \$10.00  
12 feet by 50 inches..... 12.00

Prices on Other Size Walk, Single-Drive Gates Furnished on Application

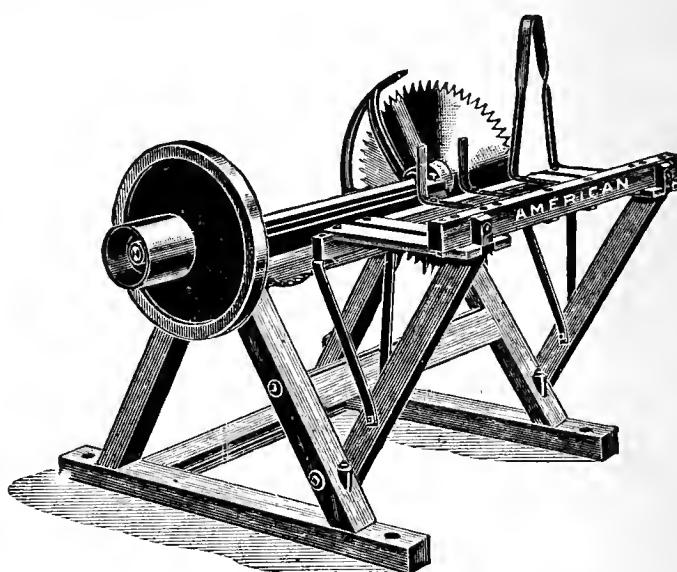
## SAW TABLES AND SAWS



No. 7 Cross Cut Saw

## WOOD CROSS CUT SAWS

In the Nos. 5 and 7, we offer exceptional values. This is clearly visible to the user of a sawing outfit without looking into the machines further than the illustrations. It will be noticed that these machines are so equipped to meet every requirement for pole or cord wood sawing. The tilting, or extension table, is easily changed to any of the different positions illustrated. These machines are made of hard wood, mortised and tenoned and neatly fitted together. They are bolted and braced in the best possible manner, giving to them that strength and durability so essential to a machine of this character. The boxes are all babbitted. Nothing but first class materials and the best



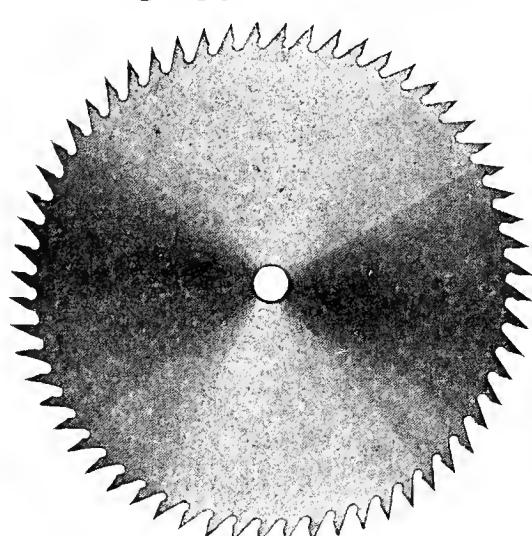
No. 5 Cross Cut Saw

of workmanship enter into the construction of these machines, so that we do not hesitate to fully guarantee every one. Size of mandrel 52 inches long, 1-7-16ths inches round. Balance wheels are 20 inches in diameter, weight 65 pounds. Pulleys are 6 inches in diameter, 6 inch face.

## Prices:

No. 7—Without Blade .....	\$27.00
No. 7—With 24-inch Saw.....	31.00
No. 7—With 26-inch Saw.....	32.00
No. 7—With 28-inch Saw.....	32.50
No. 7—With 30-inch Saw.....	33.00
No. 5—Without Blade .....	24.00
No. 5—With 24-inch Saw.....	28.00
No. 5—With 26-inch Saw.....	29.00
No. 5—With 28-inch Saw.....	29.50
No. 5—With 30-inch Saw.....	30.00

## CIRCULAR SAWS



24-inch—1 1/8 hole .....	\$4.00
26-inch—1 1/8 hole .....	5.00
28-inch—1 1/8 hole .....	5.50
30-inch—1 1/8 hole .....	6.00

## ONE MAN CROSS CUT SAW



3 foot, \$2.00

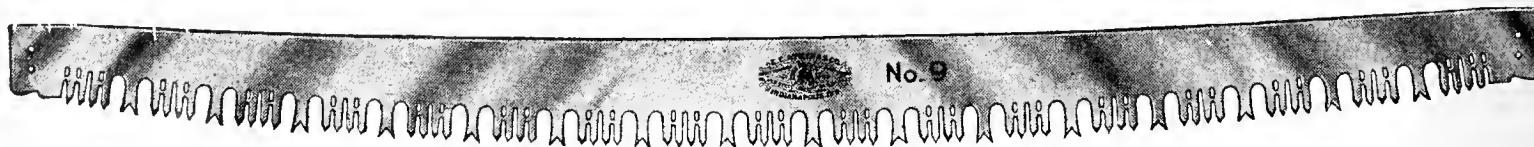
3 1/2 foot, \$2.50

4 foot, \$2.90

## STEEL WEDGES—FOR SPLITTING WOOD

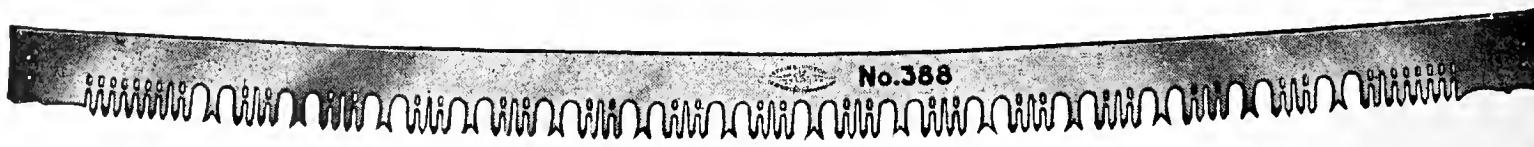
Weight	Prices
3 pounds.....	\$ .33 each
3 1/2 pounds.....	.35 each
4 pounds.....	.38 each
4 1/2 pounds.....	.43 each
5 pounds.....	.46 each
6 pounds.....	.53 each
7 pounds.....	.62 each

## WIDE BLADE CROSS CUT SAWS



5 foot, less Handles.....	\$3.25	6 foot, less Handles.....	\$3.90
5 1/2 foot, less Handles.....	3.60	Handles, per pair.....	.40

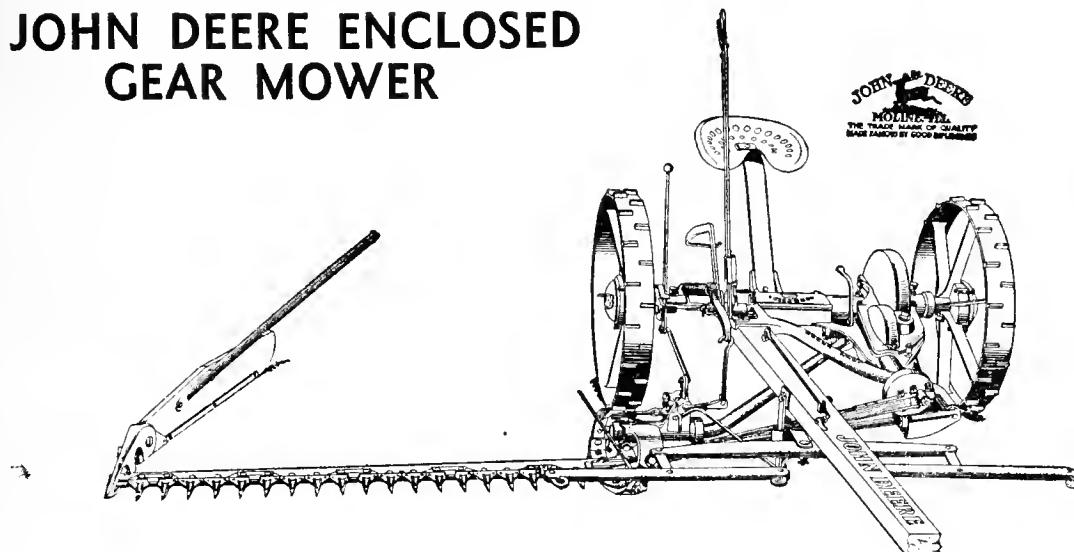
## NARROW BLADE CROSS CUT SAWS



5 foot, less Handles.....	\$2.50	6 foot, less Handles.....	\$3.00
5 1/2 foot, less Handles.....	2.75	Handles, per pair.....	.40

All Prices Subject to Change Without Notice

## JOHN DEERE ENCLOSED GEAR MOWER



When you get on the seat of the John Deere Mower the first outstanding feature you will notice is its high, easy lift with either foot or hand lever. You will appreciate the quickness and ease with which every field condition can be quickly met.

When you operate the John Deere a few rounds you will notice the riding comfort, the perfect balance of the machine, the instant starting of the knife in the heaviest hay and the clean job of cutting.

Its durable and simple construction; the ease with which adjustments can be made to keep it in good running order; the ease with which repairs can be made—these qualities too, built into this light-draft, high-lift mower, will prove your good judgment in your selection.

We Can Furnish Tractor Hitch for Heavy Duty Mower

## JOHN DEERE ONE-HORSE MOWER

The John Deere High-Lift One-Horse Mower is the same as the two-horse machine, except for its lighter construction, which fits it for one-horse work.

It has the high, easy lift, the balanced drive gears, the quickly and easily made field adjustments, flexibility of the cutter bar; in fact, all of the features that have made the John Deere two-horse machine a favorite on thousands of farms.

### Prices:

No. 3—4½ ft. cut, with pole, neck yoke and steel eveners.....	\$92.50
No. 3—5 ft. cut, with pole, neck yoke and steel eveners.....	95.00
No. 4—3½ ft. cut, with pole, neck yoke and steel eveners.....	93.50
No. 4—4½ ft. cut, with pole, neck yoke and steel eveners.....	96.00
No. 4—5 ft. cut, with pole, neck yoke and steel eveners.....	98.50
No. 4—6 ft. cut, with pole, neck yoke and steel eveners.....	102.50
No. 4—7 ft. cut, with pole, neck yoke and steel eveners.....	106.50

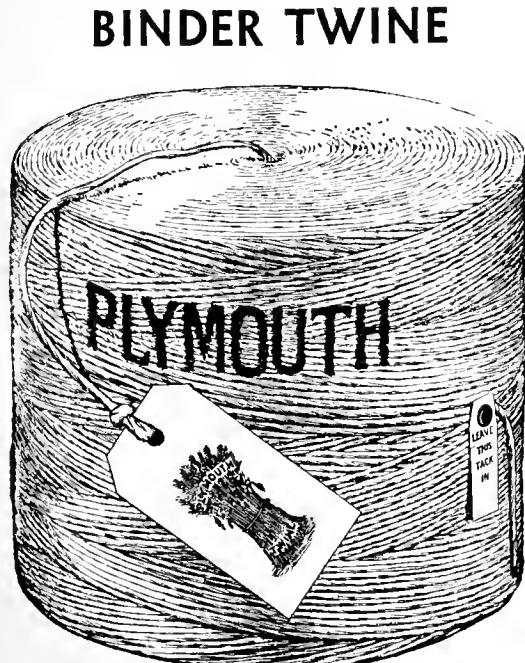
The quickness and ease with which the cutter bar can be raised to get great clearance has made the John Deere a most satisfactory mower for use on rough, stony land.

It is furnished regularly with shafts, and can be equipped with either a 3½- or 4-foot cutter bar.

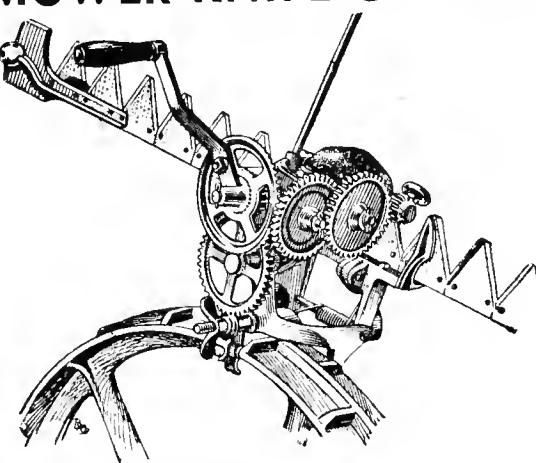
For the user who wants a good-working, light-draft, easily-operated one-horse mower, the John Deere High-Lift will give real satisfaction.

Sizes: 3½-ft., \$74.00; 4-ft., \$75.50.

## MOWER KNIFE GRINDER



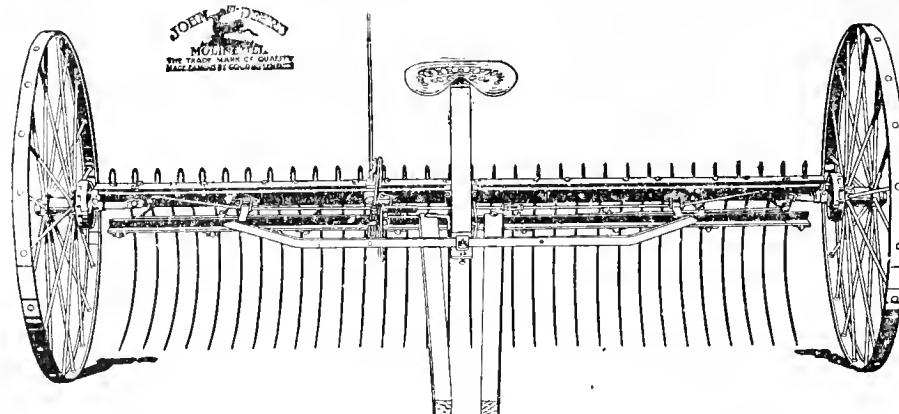
It is impossible to give the price of Binder Twine in advance, as the price is subject to market changes. Write for prices.



There is nothing harder on the mower or on the team than dull knives. The Knife Grinder can be clamped to the rim of the wheel, where it is easy to use. The knife sections can all be ground with a perfectly clean beveled edge, all of them exactly alike. This grinder is equipped with a fine-tempered steel regulator, which adjusts the pressure so that all of the sections can be ground evenly and regularly. The handle runs parallel to the knife, which is always in plain sight while being ground. Thus there is no danger of cutting the operator's hands. The grinder can also be fastened to a bench. A special stone for grinding tools or gumming saws will be furnished on special order.

Price ..... \$6.00

## NEW JOHN DEERE SELF-DUMP SULKY RAKE



### Gives Extra Years of Service

Wherever a sulky rake can be used, you can expect the best of service and satisfaction from the New John Deere. Not only is it built extra strong to withstand the hardest work in heavy hay and rough fields, but it is designed so that much of the wear that may develop after years of service can be taken up by simple, money-saving adjustments.

### Handy Levers—Easy, Quick Dumping

The New John Deere is unusually easy to operate. Slight pressure with the right foot on the trip lever causes the dump rods to engage in wheel ratchets, resulting in quick, clean dumping. The horses do the actual work. When the rake dumps, the foot lever does not rise high enough to interfere with the driver's leg. The foot lever construction is designed so that pressure of foot lever helps to force the teeth to their work quickly. For transporting, a simple hookup rod when set over lever connecting bar, or into lever base, locks up rake head.

### Proper Balance an Important Point

The frame hinges and the axle supports are located so that the weight of the operator not only assists in dumping, but also forms a cushion action as the teeth return to working position, thus preventing excessive shock. The seat spring is placed so that the weight of the operator helps to properly balance the rake, relieving sudden shocks and doing away with neck weight on the horses.

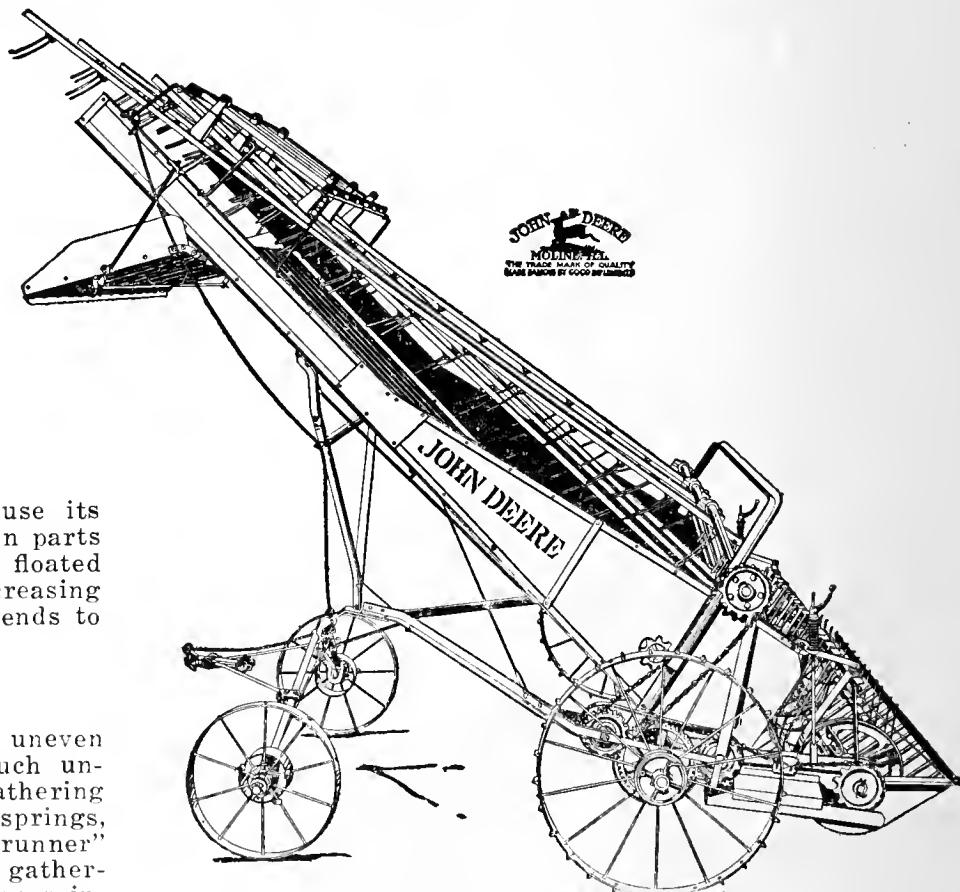
### Sizes and Equipment

Made in 8-, 9-, 10-, 11- and 12-foot sizes. Relief spring regulator on 11- and 12-foot. This spring is recommended for 10-foot rake equipped with heavy teeth, or when a great amount of heavy work is being done. The 8- and 9-foot rakes are regularly equipped with combination singletree and pole extension; the 10-, 11- and 12-foot rakes with plain pole extension. The 11-foot corn stalk rake is regularly equipped with 27 one-half-inch single coil teeth with pencil point.

### Prices on John Deere Rakes

8 foot—24 Teeth .....	\$47.50
9 foot—28 Teeth .....	51.00
10 foot—32 Teeth .....	54.00

## JOHN DEERE RAKER BAR AND CYLINDER HAY LOADER



The spring floated gathering cylinder can be adjusted so that it will not pick up anything the mower bar has passed over.

### Great Capacity

The John Deere Loader successfully handles any quantity of hay—from the lightest swath to the heaviest windrow or large separate bunches of hay, bound or unbound sheaves or grain. The adjustments are not only ample, but entirely automatic. The special springs which control the opening at the lower end of the compressors give the proper pressure to both large and small quantities of hay as it is delivered to the carrier.

### Light Draft

The John Deere Loader is light in draft because its running parts are slowly driven, its hay compression parts are automatically yielding, and its raking parts are floated and flexible, so that there can be no draft-increasing struggle with the hay or with the ground. This tends to relieve the horses of unnecessary burdens.

### Works on Rough Ground

This cylinder loader is field-worthy on rough or uneven meadows, and far superior to all others under such unfavorable conditions. This is true because the gathering cylinder mount is flexible, cylinder is floated on springs, gathering fingers spring back and form a "sled-runner" contact on touching surface elevations, lifting the gathering cylinder softly over the obstructions. The fingers instantly straighten back to retain control of the hay and the cylinder is lowered for level work. These practical features enable the John Deere gathering cylinder to act automatically as its own gauge in following surface irregularities, and it does this more perfectly than the loader which has a cylinder supported at some point ahead or behind the point being raked.

Adjustable carrier delivers hay closer to rack in starting load. Saves work in windy weather.

### Price:

John Deere Combination Raker Bar and Cylinder Loader .....	142.00
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*Good Equipment Makes A Good Farmer Better*

## THE NEW JOHN DEERE SIDE-DELIVERY RAKE WITH FLOATING CYLINDER

**Floating Cylinder**—An exclusive patented feature makes a lighter-running rake that follows the lay of the land and rakes cleaner, that "Floats" the hay into loose, fluffy windrows.

**Universal Joint Drive** of great strength transmits a positive, uniform flow of power to the cylinder, permits the easy rise and fall of the cylinder over rough, uneven ground.

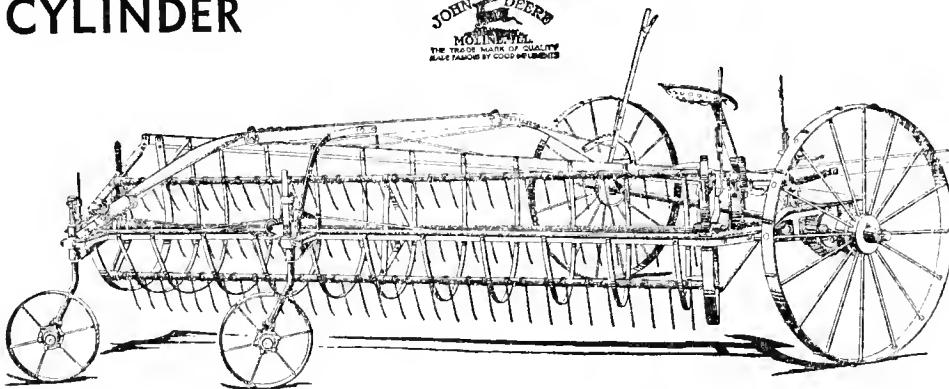
**Strong, Flexible Mounting.** This type of construction reduces wear on the machine and protects the drive gears from undue strain.

**Light Draft.** The use of floating cylinder carried on roller bearings with hardened end-thrust washers; the universal joint with replaceable bronze bearings that carry the rake power head; the pressure gun system of lubrication, and the improved tooth-bar support, together with the one-step gear reduction—all are draft-reducing advantages.

**Sturdy All-Steel Construction.** The axle and frame are heavier and stronger. New tooth bars are made of heavy steel tubing, and do not require wood reinforcement.

**Cylinder support** of improved design clamps to the center shaft and securely braces the tooth bars, thus preventing twisting of the cylinder in heavy hay.

**Adjustable Wheel Tread.** The left-hand wheel can be



set out on the axle for raking beans or extra heavy hay, without reversing the wheel or the drive dog. No adjustment of the wheel is necessary for turning windrows.

**Adjustable Tongue.** The tongue can be easily adjusted so the horses will walk between the rows when raking beans or other row crops.

### Prices:

No. 553 System Left Hand 3 Wheel.....	\$117.50
No. 554 System Left Hand 4 Wheel.....	125.00
Fourth Wheel Attachment for side rake.....	9.50
For Grease Gun, add.....	2.75

## THE MYERS O. K. HAY UNLOADER, TRACK, FORKS AND FIXTURES

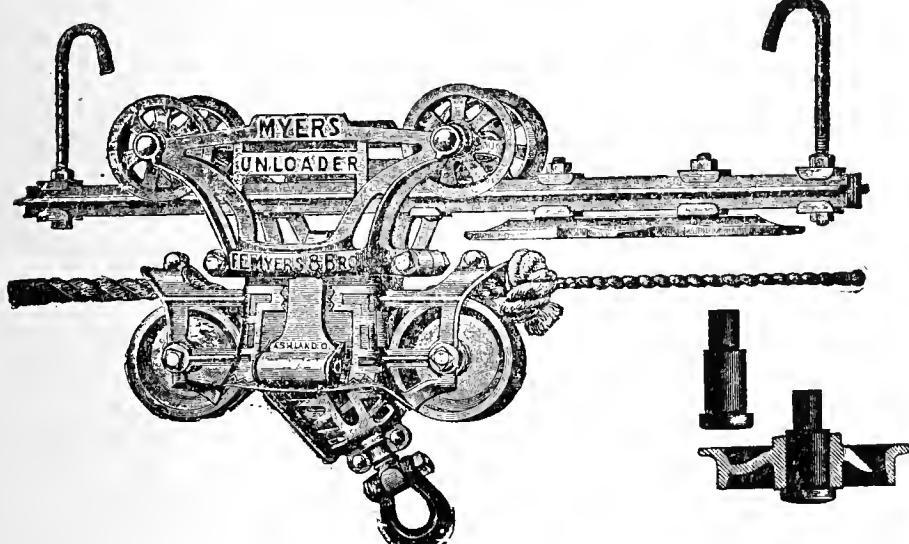


Fig. 2

### Patent Double-Lock Hay Unloaders, Patent Steel Tracks, Slings, Forks, Pulleys, Etc.

We give the above view of Myers Hay Unloader to be used on Myers Double-Angle Steel Track. This is the latest and best hay carrier, and it embodies all the features of the Straight Reversible and Swivel Reversible Carrier and has many advantages over any other machine on the market. It is fitted with the Myers reliable double lock, which engages the fork pulley on each side, thus insuring

a perfect locking device. The construction insures a satisfactory working carrier under all conditions. The track wheels have turned steel axles, and weight is carried in center of wheel; the rope sheaves are fitted with wide hub and have longer bearings than any other make of carrier. For strength, simplicity, neatness of design and up-to-date features it is without a peer. We also offer the Myers Unloader for Wood Track. Price \$10.75.

### PULLEYS, HOOKS, ETC.

Rafter Brackets (Fig. 3), each..	.05
Steel Hooks (Fig. 4), each.....	.18
Floor Hook, $\frac{3}{4}$ -inch, each.....	.18
Plain Maple Sheave Pulleys (Fig. 8), each .....	.65
Knot-Passing Maple Sheave Pulleys (Fig. 7), each.....	.75
Rafter Nails, per lb. .....	.10
Manila Rope, either $\frac{3}{4}$ or $\frac{5}{8}$ -inch diameter, at market prices; about 5 feet to the pound.	

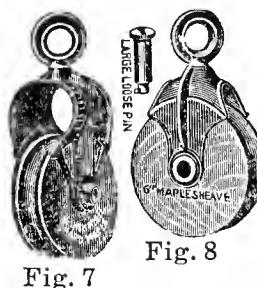


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Fig. 4

Fig. 3



Fig. 4

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Fig. 171

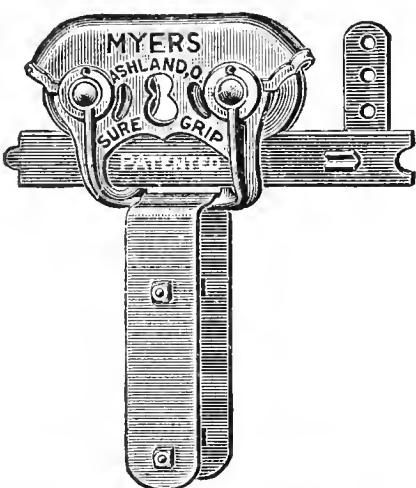
Fig. 172

Fig. 173

Fig. 174

Fig. 175

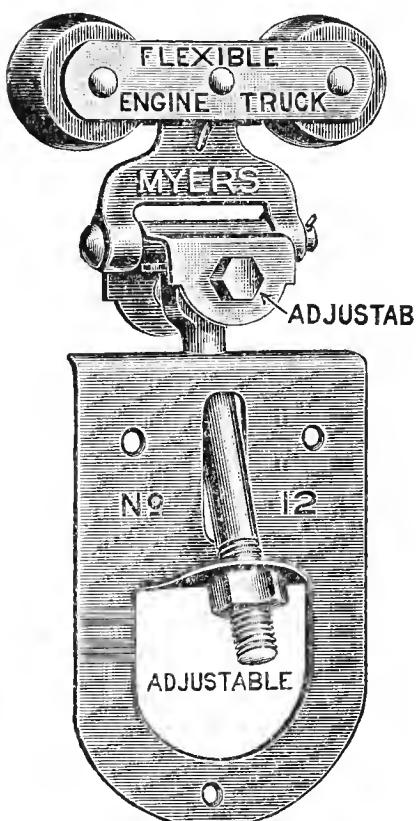
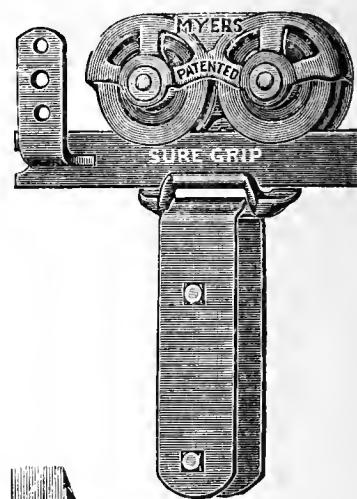
Fig. 176



## MYERS SURE GRIP PLAIN TANDEM FLEXIBLE DOOR HANGERS

These cuts show the front and back view of the Sure Grip Plain Tandem Door Hangers. Note the heavy malleable rib supporting the main frame, which adds great strength and enables the hanger to carry any weight door. Track is made of high carbon steel in 4, 6, 8 and 10 foot lengths.

Sure Grip Tandem Hangers, per pair, complete  
with bolts ..... \$1.60 pair  
Track ..... .10 per ft.  
Do not jump the  
track.

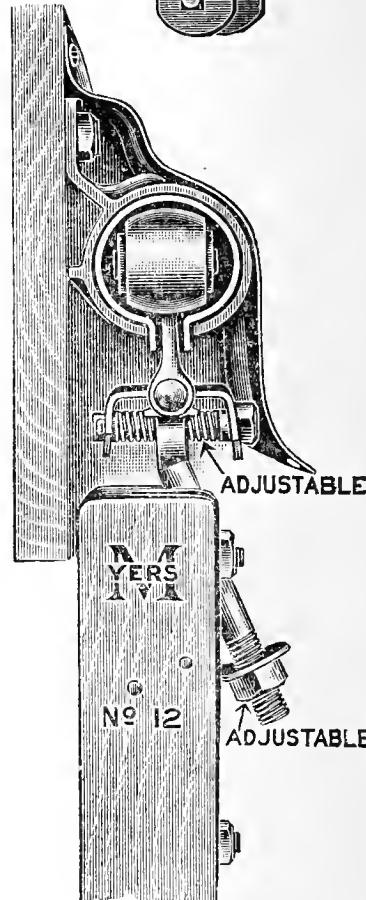


## THE MYERS NEW WAY TANDEM ADJUSTABLE DOOR HANGERS

The New Way tubular track is mounted with brackets. We call special attention to the two flanges shown on the underside of the track, which are a part of the track itself, turned down forming a girder or truss, which stiffens the track, and adds greatly to its strength and carrying capacity.

The trolley rollers are of solid steel roller bearings. The hanger has two adjustments vertical and lateral, so that with any ordinary wrench the door can be adjusted to the building.

Hangers per pair with bolts ..... \$2.25 pair  
Tubular Track, 4, 6 and 8 foot lengths ..... .21 foot  
Intermediate Brackets ..... .15 each  
End Brackets ..... .15 each



## MYERS HAND PUMPS

### MYERS VICTORY SINGLE ACTING 3-WAY FORCE PUMP

Malleable iron shield over cog gears. With adjustable base and reversible spout. Has patent glass valve seat and poppet valve. Anti-freezing. Made with galvanized pipe only. The advantage of this style handle is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the old style handle. This extra leverage adapts the pumps to deep wells. The spout is attached to the pump head by means of bolted flange union, making it reversible. The water flows from the spout in a smooth even stream, equal to that of any double-acting force pump. The base will fit over the top of a 6-inch well pipe. Fitted with brass lined, polished iron or brass cylinder. 4-foot set length.

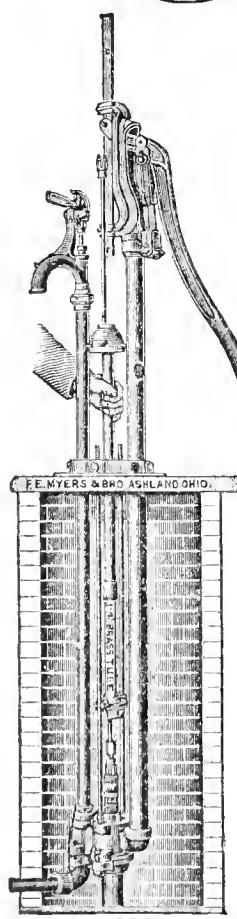


Fig. 2678

### MYERS COG GEAR SINGLE ACTING FORCE PUMP

Anti-freezing, plain handle pump, 6, 8 and 10 inch stroke. Cog gear head, 7-inch stroke for hand, 10-inch stroke for windmill. For tubular wells. Upper cylinder plunger and check valve withdrawn through base. The Victor is so constructed that all working parts can be withdrawn and replaced through the base without going below the platform. Made with galvanized pipe only.

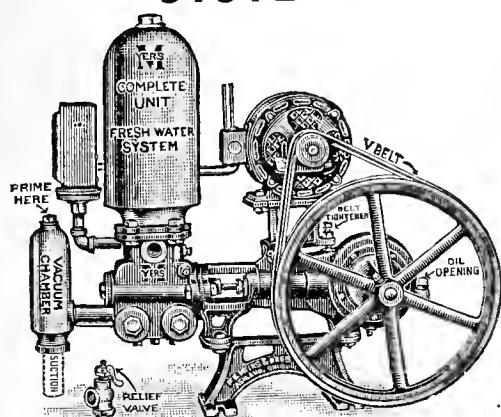
#### Prices:

Fig. 1898—Force Pump No. R 1070, with 2½-inch brass-lined cylinder	..... \$12.50
Fig. 1898—Force Pump No. R 1072, with 3-inch brass-lined cylinder	..... 13.00
Fig. 1898—Lift Pump No. R 1050, with 2½-inch brass-lined cylinder	..... 11.00
Fig. 1898—Lift Pump No. R 1052, with 3-inch brass-lined cylinder	..... 11.50
Fig. 1898—Lift Pump No. R 1058, with 3-inch polished iron cylinder	..... 8.50



Fig. 1898

## MYERS JUNIOR DIRECT WATER SYSTEM

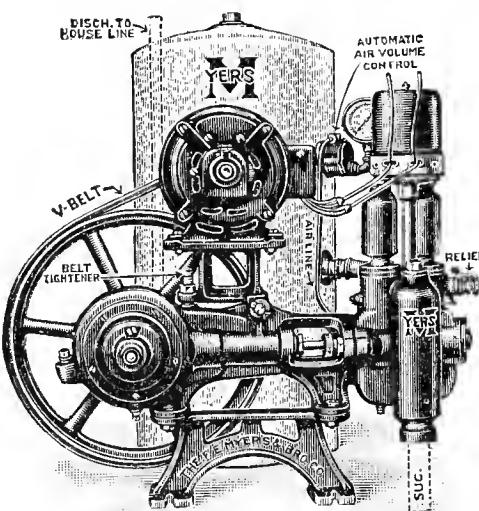


Self-oiling, perfect and continuous lubrication. No storage tank. Fresh water direct from the well. Pumps direct to the faucet. It is never necessary to draw more than  $\frac{1}{2}$  gallon of water until the pump starts, after which it pumps fresh water direct from the supply to the faucets. It avoids the expense and space required by a large storage tank and all the disadvantages connected therewith. The Myers Junior Direct Water System is of sufficient capacity to pump directly against the faucets supplying an ordinary residence. The opening of any faucet starts the pump. The expense of the current in operating and outfit of this class is no greater than is required for operating pumps when connected with large storage tanks.

## PRICES

No. 926-AM—With No. 906-A pump, complete as shown.....	\$54.50
No. 925-AM—With No. 909-A pump, complete as shown.....	58.50

## MYERS SELF-OILING AUTOMATIC WATER SYSTEM



Complete automatic control. Overload protection. No personal attention necessary. The above water systems are complete with motor, vacuum chamber, relief valve, pressure control switch with overload protection, pressure gauge, V-type belt, 12-gallon galvanized tank, automatic air volume control and flexible copper connection between pump and tank. Piston rod is stainless steel.

For use in raising water not exceeding 22 feet vertical lift to low water level.

## PRICES

No. 927-AM—250-gallon capacity, 12-gallon tank.....	\$63.00
No. 928-AM—340-gallon capacity, 12-gallon tank.....	67.00
No. 929-AM—500-gallon capacity, 12-gallon tank.....	98.00

## A COMPLETE LINE OF HOUSE PUMPS

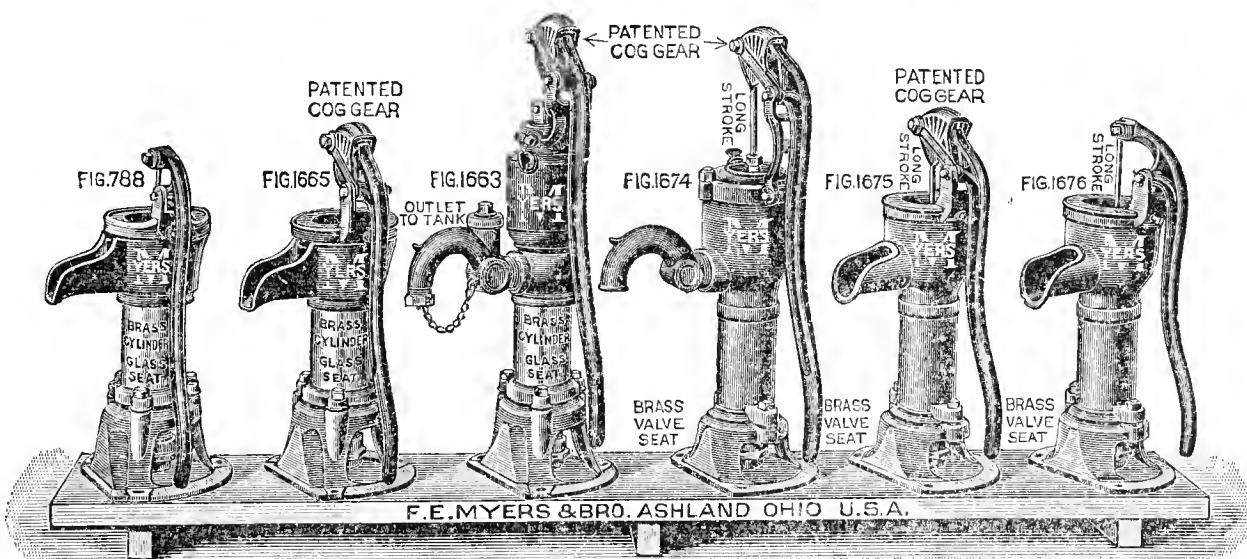
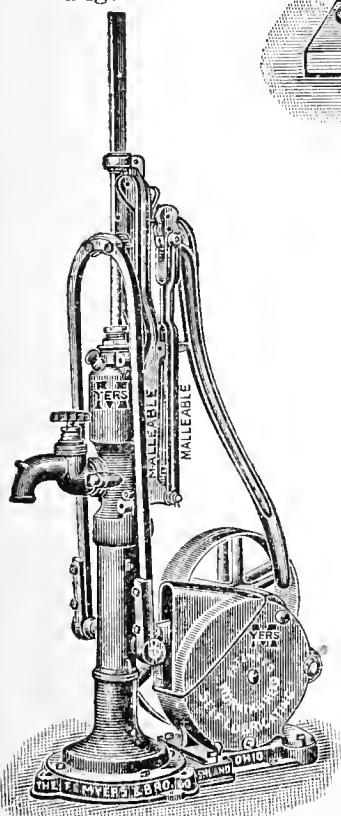


Fig. 2035



The tendency is to get away from cheap, flimsy, competitive pumps, and for a line in harmony with brass and nickel trimmings such as are being installed in bathrooms, kitchens and home surroundings.

## Prices:

Fig. 788—No. 220—Myers Long Stroke Brass Cylinder Pump .....	\$6.00
Fig. 1665—No. R 220—Myers Long Stroke Cog Gear, Brass Cylinder Pump.....	6.25
Fig. 1663—No. R 251—Myers Cog Gear Double Acting Brass Cylinder Force Pump....	9.00
Fig. 1674—No. R 414—Myers Cog Gear Single Acting 3-in. Brass Cylinder Force Pump..	7.00
Fig. 1675—No. R 416—Myers Cog Gear Single Acting 3-in. Polished Iron Cylinder Pump with B. L. Cylinder .....	4.25
Fig. 1676—No. 416—Myers Long Stroke Pitcher Pump, 3-in. Polished Iron Cylinder, Brass Valve Seat .....	4.00

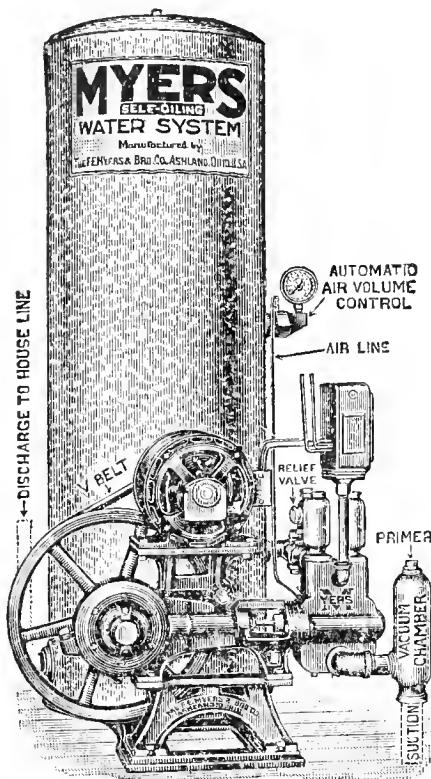
## MYERS SELF-LUBRICATING DEEP WELL POWER PUMP

Self-lubricating power head, a novel drive in which all gears and moving parts are enclosed in a one-piece casting, forming the oil reservoir. This construction not only insures perfect and continuous lubrication, but protects the moving parts from dust and dirt which not only increases the life of the working head, but also guarantees perfect safety.

## Prices:

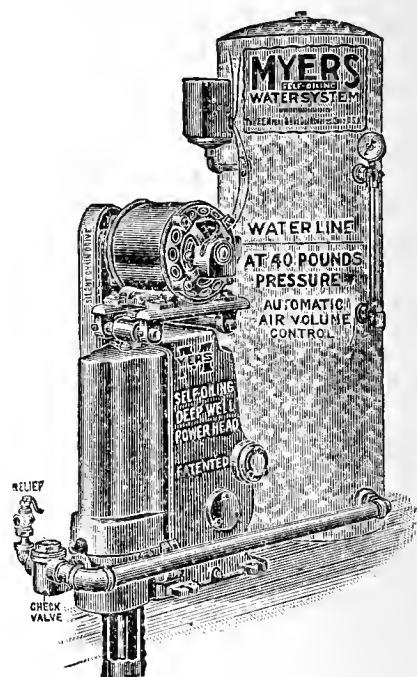
Fig. 2035—No. 432—Power Head, 6-in. stroke, for engine or motor.....	\$32.00
Fig. 2035—No. 432—Power Head, 8-in. stroke, for engine or motor.....	32.00

## THE MYERS AUTOMATIC SELF-OILING WATER SYSTEMS



For use in Cisterns or shallow Wells up to 22 feet in depth. Designed for operation from any kind of city current or from farm lighting and power systems. Operation is automatically controlled by use of the Automatic Controller. Cost of operation very small. All working parts are automatically lubricated by oil splash from the crank case, which eliminates frequent usage of a dirty oil can. Floor space 27"x29"x51" high. Galvanized tank.

Myers Deep Well Complete Water System Unit for wells over 25 feet in depth. It is made up of the Myers Self - Oiling Working Head with a Motor mounted on Gear Case, connected to a 42-gallon Galvanized Tank. The necessary amount of air is controlled by the automatic air control. The air is supplied through the water line between Pump and Tank.



Pump	Capacity Gal. per Hour	Motor H.P.	Current	Suc. Inch	Disch. Inch	Tank Galv.	Price
906AT	250	1/6	A.C.	3/4	3/4	42 Gal.	\$71.00
909AT	340	1/4	A.C.	1	3/4	42 Gal.	75.00

### THE MYERS CENTRIFUGAL SUMP PUMP

Built to supply our trade's demand for a really dependable automatic cellar drainer, this new unit is notable for its sturdy construction and simplicity. Recommended as equal to the best the market affords in care-free service.

**MOTOR:** Ball bearing (no oiling necessary).  $\frac{1}{4}$  H.P. heavy duty, continuous service, induction type, 110 volt, 60 cycle, 1725 r.p.m., built specially for sump pump application.

**PUMP:** All bronze stainless steel shaft and ball bearing thrust, all other bearings oilless (no greasing or oiling necessary).

**AUTOMATIC CONTROL:** Enclosed switch, positive type, actuated by oversize ball float connected to control rod. Control rod has adjustable stops to regulate trip of switch for pumping at various levels.

**INLET:** Large inlet is under pump, fully protected by non-clogging screen.

**OUTLET:** The outlet is tapped for standard 1-inch fittings for easy connection to pipe or hose line.

**INSTALLATION:** Cord and plug is supplied with each unit for attaching to ordinary socket. Cord length 8 feet.

**HEIGHT:** 40 inches. **WEIGHT:** 65 pounds.

A crock 24 inches or larger is recommended for sump.

**CAPACITY TABLE—Head in Feet—Gallons per Hour**

Ft. Head	1 ft.	5 ft.	10 ft.	15 ft.	20 ft.
Gallons	2400	1900	1500	900	400

Price \$37.50

Tell us what your requirements for water are, and allow us to quote you on the proper Water System or Pump for

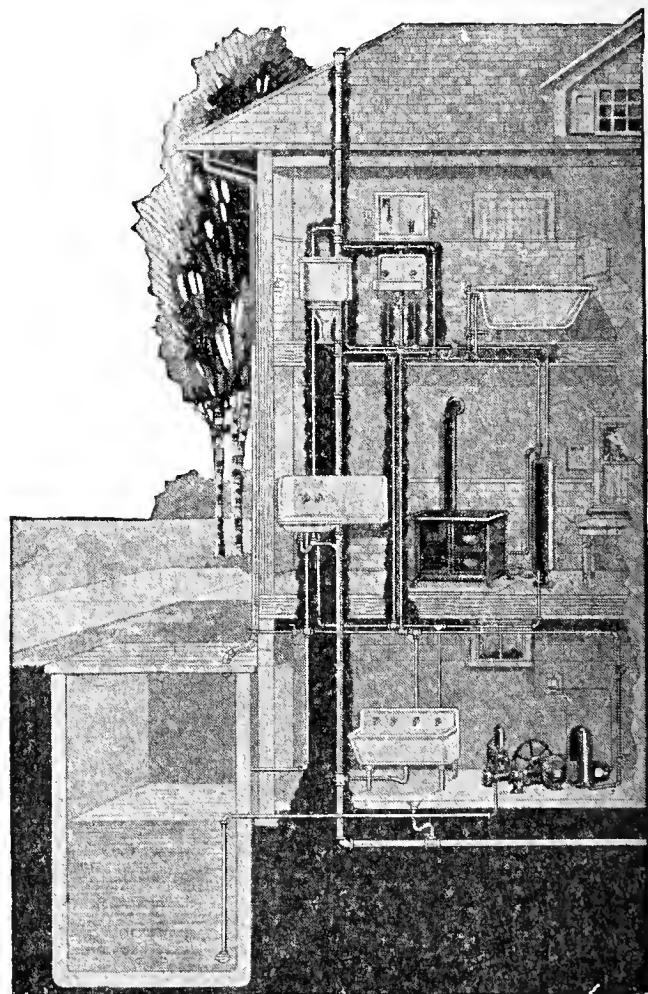


Illustration shows an interior view of any home with a complete Water System.

The water supply is furnished in this installation by the **Myers Direct Water System (No Storage Tank Needed)**. Why not equip your Suburban and Farm Home with a supply of Fresh Running Water, and save the drudgery of carrying water.

We carry a complete line of Water Systems, Hand and Power Pumps for all purposes.

your requirements. Special pump catalogue furnished on request.

## MYERS SELF-OILING BULLDOZER POWER PUMP

### PERFECT AND CONTINUOUS LUBRICATION

No Personal Attention Necessary.

SELF-OILING A FACT, NOT A HOPE.

For Pressure Tank or Open Tank Service.

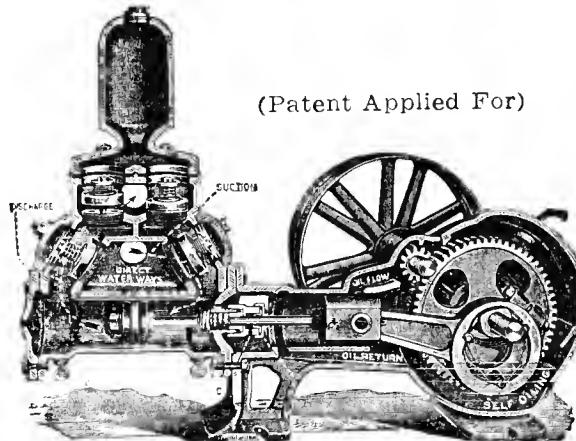
100 Pounds Pressure.

Each Pump Tested Under 125 Pounds Pressure.

Center Line Drive. No Side Thrust. Back Geared 5 to 1.

The Myers Self-Oiling Bulldozer Power Pump, is a single cylinder, double-acting power pump for supplying water under pressure in connection with a Pressure or Open Tank for general service on Plantations, Country Estates, in Mines, Apartment Houses, Hotels, Mills, Factories, Railway Tanks, Stations, or wherever from 260 to 9,000 gallons of water per hour are required against a pressure up to 100 lbs. or 230 ft. elevation. From Wells not exceeding 25 feet to Low Water Level.

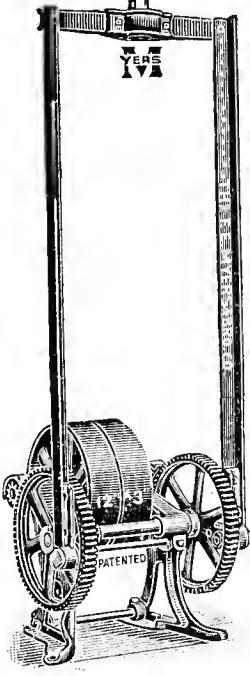
FOR OPEN TANK SERVICE  
(WITHOUT AIR VALVE.)



(Patent Applied For)

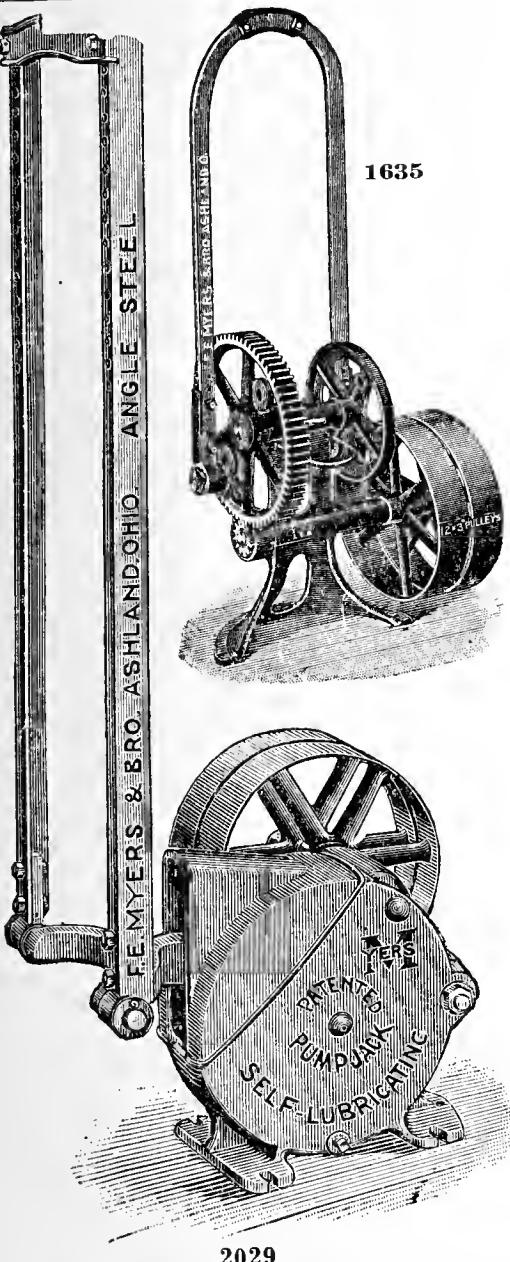
## MYERS PUMP JACKS

UNIVERSAL BALL &  
SOCKET JOINT



1635

2001



2029

Fig. 2029 illustrate the Myers Self-Lubricating Pump Jack, engine driven, a novel device in which all gears and moving parts are enclosed in a one-piece casting, forming the Oil Reservoir. This construction not only insures perfect and continuous lubrication, but protects the moving parts from dust and dirt, greatly increasing the life of the Jack. Furthermore, it guarantees perfect safety.

**CONSTRUCTION**—Gear and Pinion are machine cut and move in oil. The Gear is fitted with an eccentric cast integral which operates a walking beam hinged at one end to the main frame or base. The revolving of eccentric moves the forward end of walking beam vertically giving a 6-inch stroke to the pump piston. Can be used in connection with any make of Pump Stand. Has Angle Steel Arms, making as a whole the most durable Pump Jack on the market.

Price \$17.00

Pump No.	Cylinder Brass Lined	Diam. Stroke	Capacity					Price
				Disp. ea. Rev. of Plgr. Gal.	Usual Plgr. Speed, R.P.M.	Max. Plgr. Speed, R.P.M.	Max. Gals. per Min. at Pump	
912	2 1/2 x 3	.128	60	70	9	1	12x2	1 1/4 \$49.00
913	3 x 4	.245	60	70	17	2	14x2 1/2	1 1/2 76.00
914	4 x 5	.544	55	65	35	4	16x4	2 114.00
915	5 x 5	.85	50	60	51	6	16x4	2 1/2 128.00
916	6 x 6	1.47	40	52	76	7	24x4	3 203.00

Fig. 1635 represent the Myers Universal Pump Jack, designed to be used in connection with any ordinary windmill head pump without disarranging the pump or pipes in any manner. It is mounted on a substantial circular base which surround the pump stand, and is bolted securely to the platform, and also clamped to the pump stand, making a most substantial job. We believe this to be a more practical device than the ordinary cheap jack now in use, which is bolted direct to the body of the pump stand only.

Price \$15.00

The Myers Master Double Gear Pump Jack, as represented by Fig. 2001, is the latest production, especially designed for use with windmill pumps for deep well work. It is made extra wide, measuring 13 inches between the gear wheels, which adapts it for use with 3-way pumps. It has double gears and pinions.

The Gears and Pinions are 1 1/8 inch face, machine cut.

The Wrist Pins are 1 inch in diameter, hard steel, machine smoothed, screwed into the gear wheel, and are secured in addition by a lock nut.

The Shafts are 1 1/8 inch drawn steel securely keyed to the gears.

The Pulleys, 12 inches x 3 inches, are located in the center of the jack, providing for a center pull, thus doing away with all side strain as in other style jacks.

The Frame is made in two separate pieces, held together with 7/8 inch steel rods.

The Side Arms are angle steel bars, adjustable to any length stroke or height of pump.

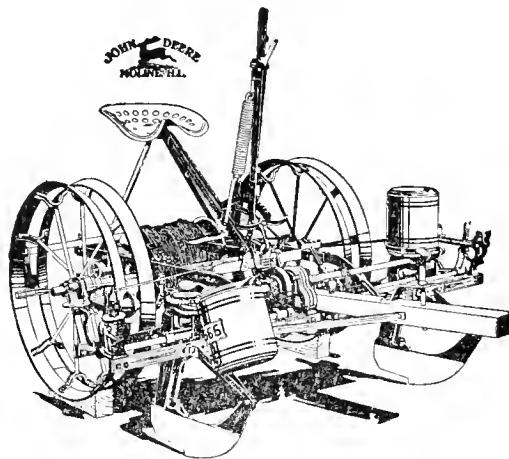
The Crosshead is extra strong, fitted with a ball and socket joint to attach the pump rod. This socket joint prevents binding and removes all unnecessary strain and friction on the piston rod. The socket joint also permits the piston rod to pass through at any angle, or pump to set at any angle.

The Myers Master Double Gear Pump Jack is designed to meet the demand for an extra strong jack where great strength and wearing qualities are desired.

Price \$18.00

Write for Special Pump Catalogue

## JOHN DEERE No. 999 CORN AND BEAN PLANTERS



The shape of seed cells and improvements in the dropping device permit planting tip or butt kernels without cracking seed or without losing the high degree of accuracy.

### The Full Variable Drop Planter

The John Deere No. 999 Planter has a variable drop consisting of a train of gears constantly in mesh. With this device, two, three or four kernels can be planted as desired merely by shifting the foot lever. The gears are enclosed in an oil-tight and dust-proof case.

The driving mechanism has this advantage over the ordinary—it never is separated. Other devices open and close at every actuation of the fork by the wire, and are constantly being released under strain, causing considerable wear and reducing the life of the most important parts of the planter. The device on the John Deere No. 999 Planter can be shifted at any time in the travel of the machine.

The John Deere No. 999 is a real variable-drop planter—it varies the distance in drilling as well as the number of

ernels per hill in hillling, and gives a greater variety of distances without the use of extra sprockets and plates.

All regular plates on this planter have 16 cells and by means of the variable drop gears, they give the same drilling distances as other planters which have no variable drop gears, using 8, 12 and 16 cell plates.

### Plants Many Varieties of Corn

Seed plates can be furnished for handling every kind of corn; also beans, sorghum, milo maize and other seeds. The improved form of cut-off has a quick action. The spring roller knocker causes each kernel to be discharged from the plate cell without fail.

There are no ridges or obstructions in the valves to catch and hold the kernels. Sufficient opening is left just above the upper valve to enable operator to see the kernels as they are collected for the hill.

### Hilling and Drilling

The change from hillling to drilling, or vice versa, is instantly made. No extra attachments, no extra cost and no extra tools are required. To drill, it is only necessary to hook the foot drop rod over the small casting on the rock shaft, using notch nearest the end, and then press down on the foot lever until it locks automatically in the position shown by the shaded portion in the illustration. There is no switching of the valves, no addition or removal of parts, and the drilling distances most commonly used are had without changing seed plates. When turning at the end of rows, a slight pressure of the foot on the treadle unlocks the lever and stops the drilling. When used for foot dropping at the ends of field, the lever is hooked in second notch from end.

### This Planter will narrow into 2 ft. 4 in. rows

Price, Plain Planter .....	\$87.00
Fertilizer Attachment, Extra .....	28.50

## The John Deere Special Bean Drill for Drilling Peas, Beans and Corn

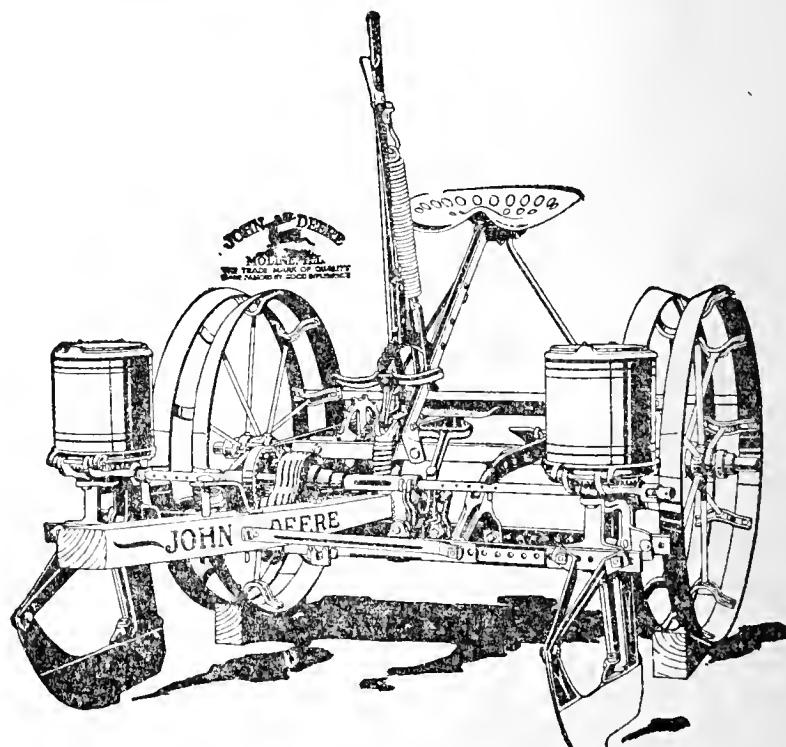
### John Deere No. 919 Drill

The John Deere No. 919 Drill is the same in general construction as the No. 999 Check Rower Planter. As it is intended for drilling only, it is not equipped with check rower and valve mechanism. Simplicity of construction, accuracy and reliability in drop make this machine a superior two-row drill.

It is just as desirable to have the seed properly spaced with unfailing accuracy when drilling as it is to drop three or any other number of kernels in the hill when check-rowing. The No. 919 Drill easily satisfies the most exacting requirements.

Price \$73.50

SEND FOR SPECIAL CATALOGUE



*Quality Our Watchword*

## John Deere Visible Potato Planter offers you Outstanding Advantages

### Accuracy

The simple gravity feed of the New John Deere insures just the right amount of seed in the bowl for efficient planting. You can plant whole or cut, treated or untreated seed with surprising accuracy. Double-pointed picker—a field-proved construction—is used in this new planter. Spring trips, of flexible steel, add greatly to the efficiency of this new planter because, with the spring trip, each seed is released at just the right time; no seed-pieces are knocked loose by shock—a common occurrence where rigid-type trips are used. Especially designed agitators work constantly, keeping up the uniform flow of seed into the picking bowl—there is no bridging of the seed in the hopper or feed. Spacing sprockets are available for spacing seed 9, 11, 13, 15, 18, 22, 26, and 30 inches in the row. Smooth-running steel roller chain insures uniform drive without lost motion—a mighty valuable contribution to the accuracy of this New John Deere Planter.

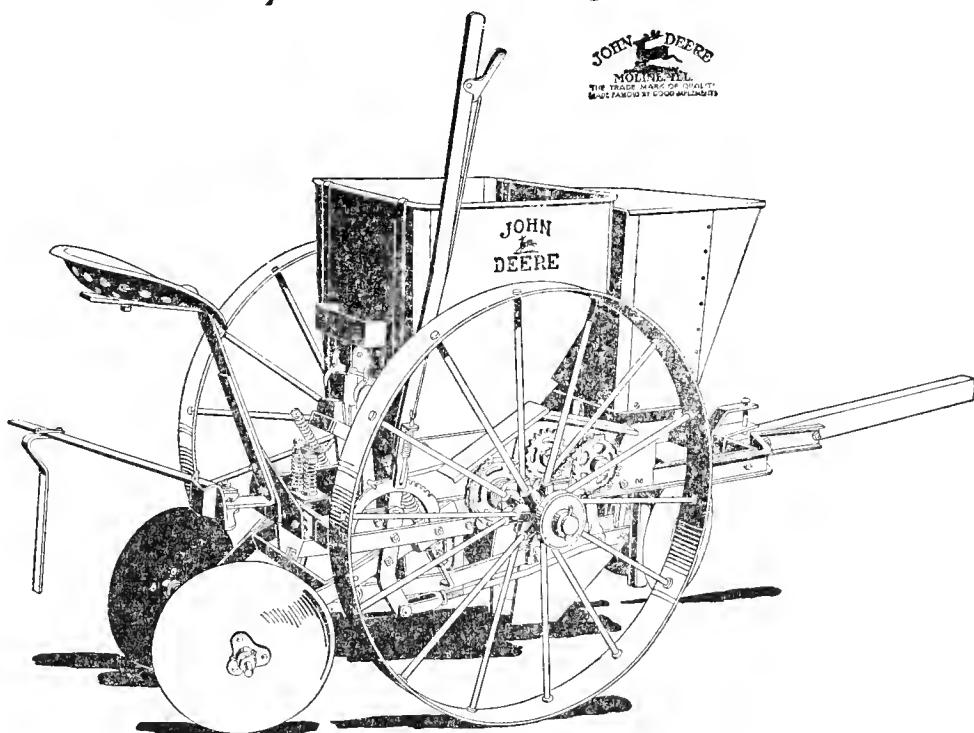
### Safety Fertilizer Attachment

Highly efficient fertilizer equipment with leak-proof hopper bottoms, handles fertilizer in practically any quantity desired, in just the way you want it handled and at the desired depth.

### One- and Two-Row Styles

The New John Deere is made in one and two row styles for operation with horses or tractor. The two-row offers the same advantages of construction as the one-row. One lever controls the lifting and lowering of both units. Further provision is made for throwing either one or both units out of gear.

Two-row planters are furnished in these three styles: adjustable for 30-, 32-, 34-, and 36-inch rows, and for 36-, 38-, 40-, and 42-inch rows.

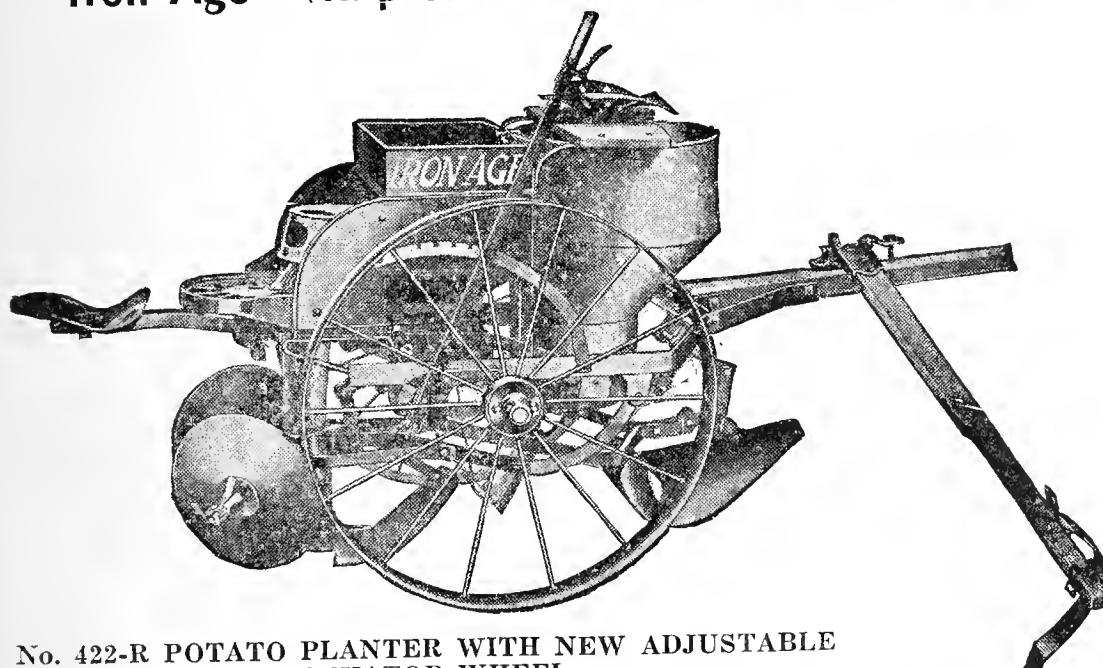


### Prices: ONE-ROW

With Spring Marker, 40 inch x 4 inch Wheels, Pole and Neck Yoke, less Eveners.

No. 1400 .....	\$111.00
No. 1400G (with No. 1416 Fert. Attach.) .....	146.00
For 2-Horse Eveners, add .....	3.75
No. 1416 Fertilizer Attach. (14-in.) .....	35.00
Tractor Hitch instead of Pole and Neck Yoke .....	0.00
No. 438 Tractor Hitch as Extra .....	5.50
No. 404 Disc Marker instead of Spring Marker, add..	2.75
R-583 Shallow Covering Teeth instead regular, deduct .....	1.65

## “Iron Age” (Improved Robbins) Potato Planter



### No. 422-R POTATO PLANTER WITH NEW ADJUSTABLE ELEVATOR WHEEL

This planter is known as the 100 per cent planter because it puts one seed piece, and only one, in every hill—no misses or doubles. You do not plow, harrow, plant, spray, cultivate and dig over missed spaces which bring you no profits. It also avoids the waste of fertilizer and spray material on unplanted spaces.

The planter is constructed almost entirely of steel. This gives decided advantages of strength, lightness and compactness over planters with cast-iron or wood frames. It is perfectly balanced, with less weight for the horses to pull. There are no heavy, bulky castings to replace because of breakage. The steel seed box is lighter, more durable than wood and holds more seed than a wooden box of the same size.

The construction is simple, allowing you to get at all parts easily.

## ACME ROTARY AUTOMATIC HAND CORN PLANTER

Full rotary drop. Pressed steel hopper. Adjustable cast disk or seed plates. Maleable ratchet lever. Brass spring cut-off. Double coil main spring. Extreme accuracy of drop due to novel exclusive and common sense design of seed plates, and brass spring cut-off or stripper. Double coil spring automatically rotates disc and closes jaws. Used in one hand like a walking stick. Disk is set for correct number of kernels by loosening thumb nut, moving star till pockets are of right size, then tightening thumb nut again. Plunge planter in ground rock forward to trip seed, and withdraw.

Price \$2.75

We are now equipping this planter with our new patented adjustable feed wheel. This wheel is adjustable to an exact variation giving all sizes between those of the extra plates formerly used. Sometimes one plate was a little too large and the other a little too small, but the new feature gives any adjustment wanted.

With this new plate there is no trouble of losing or mislaying the extra plates formerly supplied. It also reduces the work of the boy on the rear.

Side Dressing, Ridging, Corn, Bean and Pea Attachments can be supplied. With these attachments truckers can find use for the machine throughout the season.

Making up rows, opening furrows and covering them can be done with the regular machine.

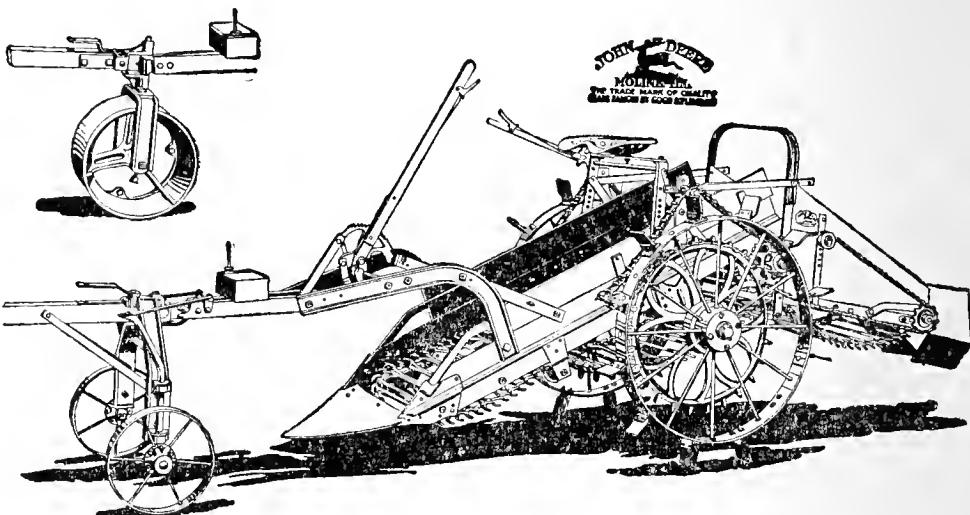
Price with Fertilizer Attachment \$142.50

## JOHN DEERE - HOOVER POTATO DIGGER

Growers everywhere know the reputation of the John Deere-Hoover Potato Digger for great strength and long service, its efficient performance in any field condition, and its ability to deliver the potatoes dirt free with the least possible mechanical injury.

### Twenty-nine Outstanding Features:

1. Vine-turning rods to separate vines from potatoes and place vines to one side.
2. Special tempered steel chain.
3. Adjustable vine-kicker shaft.
4. Reversible, renewable, babbitted bearings, adjustable with shims to keep gears in proper alignment.
5. Adjustable agitating rear rack.
6. Heavy sheet steel fenders.
7. Syracuse chilled agitator with non-winding hub.
8. High-carbon plow steel adjustable beams.
9. Malleable lever sector.
10. Plow steel stub beam.
11. Steel potato rods; riveted into rack head.
12. Syracuse hard-chilled iron broad-faced gears.
13. Oil soaked maple bearings.
14. Cold-rolled steel rear agitating shaft, brass bearings and adjustable rack agitation.
15. 1½-inch cold-rolled steel axle.
16. Renewable hub with oil recess.
17. Rugged wheel with twelve oval staggered spokes.
18. Plain lugs are regular equipment; sidehill lugs can be furnished as an extra.
19. Forged-steel idler hanger.
20. White-iron idler roller.
21. Heat-treated alloy steel elevator rods.
22. 7x¼ inch double angle steel sides.
23. Malleable die-dropped shovel support.
24. Main roller bracket; adjustable to vary agitation.
25. Tapered chilled stone excluding main front rollers.
26. Tempered plow-steel shovel. Corners extend beyond frame to prevent clogging.
27. Shields prevent vines and weed from hanging.
28. Renewable hub and chilled bearing.
29. Quick-turn, two-wheel or single-roller front truck, optional.



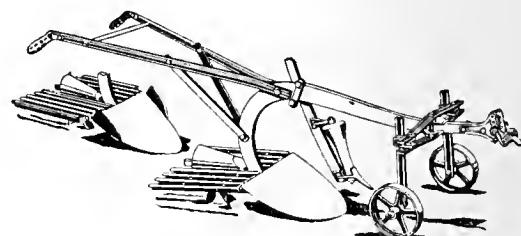
### Prices:

No. 622N—6 ft. 22 in. Rod Elevator, Rear Rack and Vine separator, with 2-horse evener.....	\$148.50
No. 724S—7 ft. 24 in. with continuous elevator and 4-horse evener .....	170.00
Prices on other sizes furnished on application.	

## “JOHN DEERE” SHAKER POTATO DIGGER

Steel beam. Natural temper steel blades. Provided with weed fender and gauge wheel. The Shaker Digger has a perfectly flat blade and will not cut the potatoes. The rod grating is hinged at the front and is given an up-and-down shaking motion by the sprocket wheel at the rear. This shakes the dirt off from the tubers and leaves them clean and whole on top of the ground. The weed fender is intended to clear away weeds and vines, preparing the way for the blade. The Digger is shipped with fore carriage and fender, unless ordered without.

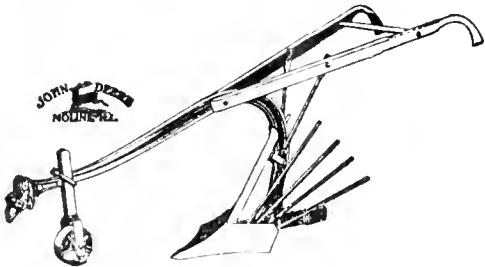
Price with Weed Fender and Fore Carriage.....\$25.50



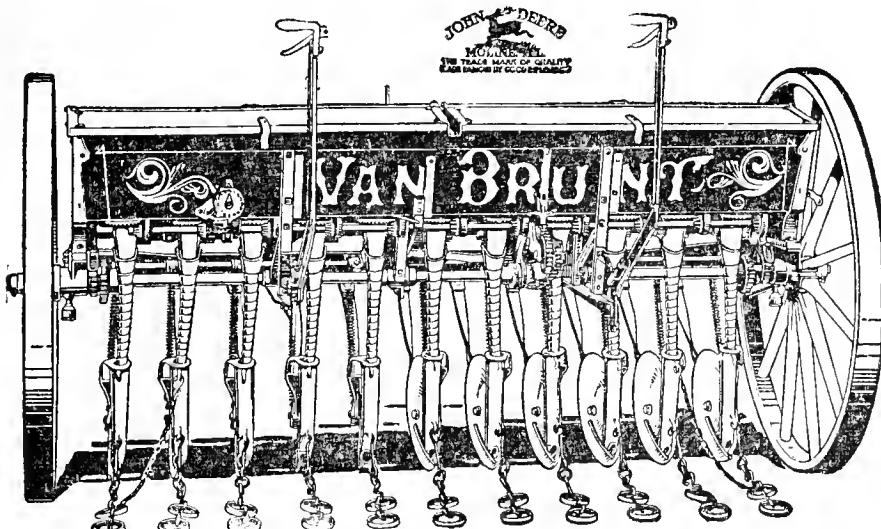
## ECLIPSE POTATO DIGGER

The Eclipse is a moderate-priced potato digger that is being widely used with great success. The rod moldboard frees the potatoes from dirt and leaves them where they are easy to see and pick up. Extra high clearance in throat of beam. Strong steel blade scours and wears well. Gauge wheel regulates depth. Adjustable handles. Steel beam.

Price Complete with Gauge Wheel.....\$19.50



## VAN BRUNT FERTILIZER GRAIN DRILL



## Furnished With Wood or Steel Wheels

Sizes—7-inch feeds; 9, 10, 11, 12, 13, 16 discs, shoes or hoes; 8-inch feeds; 6, 8 discs, shoes or hoes

## Seed is Covered Properly—Rapid Growth is the Result

Every kernel or seed is conveyed by metal tubes from the feed to the bottom of the furrow before any soil can drop back. The seed beats the dirt. The Van Brunt Disc Drill boots make this possible. They are brought forward so that they lie entirely within the surface of the disc. The seed passing through does not come in contact with the upturning disc surface.

## Grass Seed Attachment

All Van Brunt High Wheel Grain Drills can be supplied with grass seeders, which can be used either for drilling or broadcasting clover, timothy, alfalfa, and other similar seeds. It is attached to the front of the grain box and can be used at the same time seed is being planted and fertilizer distributed.

## GRAIN DRILLS—MODEL F

With Fertilizer and Grass Seed Attachment  
HORSE DRAWN FERTILIZER, MODEL "F"

With Wood or Steel Wheels, and Alemite Zerk Lubrication, Wood Box, Less Grain Agitators.

## DISC DRILLS

8x8 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	\$153.00
9x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	162.50
10x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	172.75
10x8 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	174.00
11x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	182.75
12x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	190.00
13x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	206.00
16x7 Single Disc, 2 pole, 4-h. hitch, W. W. 107.....	257.50
8x8 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	163.25
9x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	174.25
10x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	185.75
10x8 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	187.00
11x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	197.25
12x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	205.75
16x7 Double Disc, 2 pole, 4-h. hitch, W. W. 107.....	272.50
Above Drills priced with Alemite-Zerk Grease Gun.	
If not wanted, deduct .....	2.50
For Center Foot Board Attachment, add.....	1.75

## SHIFTER SPRING HOE DRILLS

8x8, 1 pole, 2-horse hitch, W. W. 75.....	\$146.50
9x7, 1 pole, 2-horse hitch, W. W. 75.....	155.25
10x7, 1 pole, 2-horse hitch, W. W. 75.....	164.75
10x8, 1 pole, 2-horse hitch, W. W. 75.....	166.00
11x7, 1 pole, 2-horse hitch, W. W. 75.....	174.25
12x7, 1 pole, 2-horse hitch, W. W. 75.....	180.50
16x7, 2 pole, 4-horse hitch, W. W. 107.....	231.75
Above Drills priced with Alemite-Zerk Grease Gun.	
If not wanted, deduct .....	2.50

## JOHN DEERE - HOOVER FERTILIZER DISTRIBUTOR

For Potatoes, Cotton, Tobacco, Corn, Cabbage, Beans and Other Row Crops

The John Deere-Hoover Fertilizer Distributor is designed to distribute fertilizer before planting. It has been developed especially for the efficient distribution of commercial fertilizer for potatoes, cotton, tobacco, corn, cabbage, beans or other similar row crops.

The frame of the John Deere-Hoover Fertilizer Distributor is the same as used on the two-row planter with the same simple adjustments and width variations. The fertilizer-distributing mechanism is the same as that used as an attachment on the potato planter, operated with direct chain drive from the axle.

The machine distributes fertilizer two rows at a time, in any desired quantity and at the desired depth. The fertilizer is always thoroughly mixed with the soil and does not come in contact with the seed.

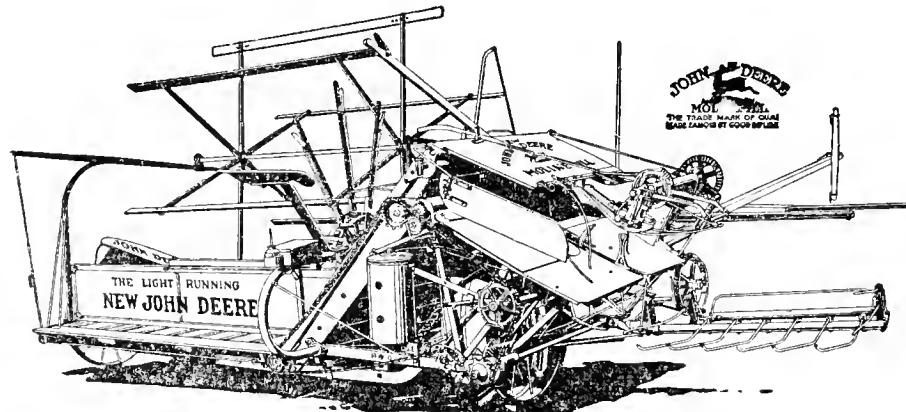
The John Deere-Hoover may be used with or without disk coverers. It is regularly furnished with disk furrow openers similar to those used on fertilizer attachment supplied with John Deere-Hoover planters.

This efficient fertilizer distributor is furnished in one- and two-row styles. Any hitch available for two-row planter can be furnished.

## Prices:

No. 480—Two-row distributor with 32", 34", 36" adjustment; pole, 2-horse eveners and neck yoke .....	\$157.50
No. 481—Two-row distributor with 36", 38", 40" adjustment; pole, 2-horse eveners and neck yoke .....	157.50

## The Light-Running New John Deere Grain Binder With Enclosed Drive Gears



This Light-Running New John Deere Grain Binder is easier on the horses and will go through places where a machine requiring more power would choke down. Its light-running is a feature that you notice from the very start. This light-running advantage not only means less work for you and your horses, but the light-running qualities that are built into the binder reduce friction and wear, resulting in longer life for the machine and less trouble and expense for you.

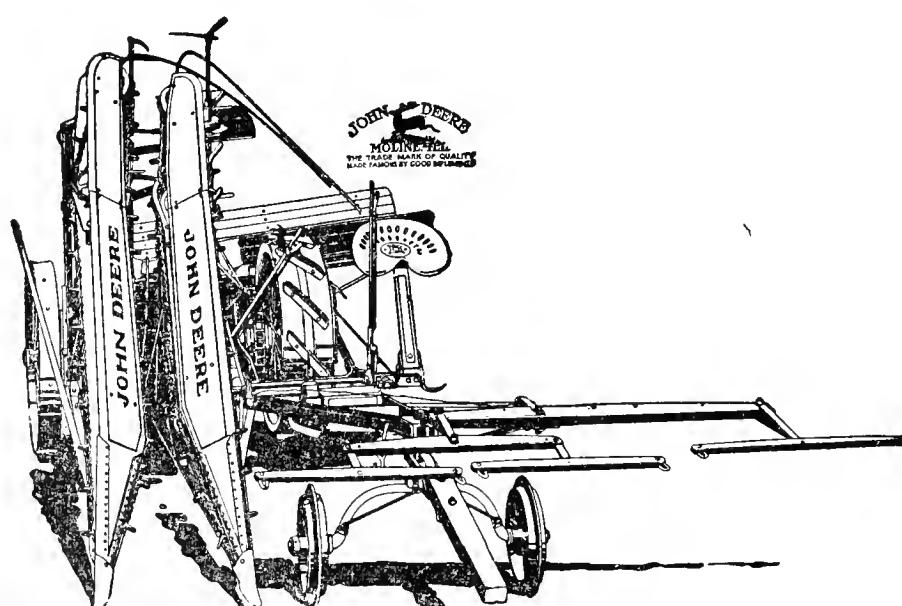
From the sickle that does the cutting on to the knoter that does the tying, and to the bundle carrier that does the dumping, you will find improvements and refinements that make the John Deere easier-running, easier to keep in running order, more durable, easier to operate, and a better working binder under all field conditions.

### Prices:

6-ft. with Bundle Carrier and 3-horse pole attachment .....	\$220.00
7-ft. with Bundle Carrier and 3-horse pole attachment .....	230.00
8-ft. with Bundle Carrier and 3-horse pole attachment .....	242.50
8-ft. with Bundle Carrier and Tongue Truck and 4 H. E. ....	255.00
For Transport Truck, add.....	12.00
Tongue Truck when shipped with Binder instead of 3-horse pole attachment, add.....	16.00

## John Deere Corn Binder

FAMOUS FOR ITS BETTER WORK UNDER DIFFICULT FIELD AND CROP CONDITIONS



The ability of the John Deere Corn Binder to do better work over a longer term of years under difficult field and crop conditions is an outstanding quality. Many users say that they cut their corn successfully with their John Deeres under conditions that keep less efficient binders in the shed.

There is no one feature responsible for this better performance. It is the result of years of development resulting in improvements in design to meet the unusual situations. The John Deere has an unusual amount of traction which is very important. This provides ample power to insure positive and continuous passage of the corn from the time it enters the gatherers until the bundles are discharged free from the path of the horses.

### Positive Delivery of Stalks to Binding Attachment

Lodged and tangled corn is readily picked up by the gatherers. The gatherers are wide at the points and can be accurately set at any desired distance from the ground.

As the corn enters the gatherers, four chains carry the corn to the binding attachment. In addition, two top gather chains with long lugs help to keep the tops straight and assist in forming well-shaped bundles. The two steel throat springs, adjusting themselves to any volume of corn, hold the corn into the chains.

The butt chain is equipped with long, wide folding lugs that extend across the throat of the machine and prevent the butt end of the stalks from lagging.

This combination carries the corn in the easiest and most positive manner to the binding attachment, with minimum loss of ears.

### Prices:

Corn Binder with Pole Attachment, 2-HE.....	\$220.00
Corn Binder with Pole Attachment, 3-HE.....	223.00
Corn Binder with Tongue Truck, 3-HE.....	242.50
Regular Power Bundle Carrier with Binder, add....	16.00

*All Prices Subject to Change Without Notice*

## Introducing the New JOHN DEERE HAMMER MILL

Now you can get an inexpensive and economical John Deere Hammer Mill that will enable you to prepare your own feeds as desired from the crops raised on your farm. The work of this new 10-inch mill ranges from the finest grinding for chick or pig mash, to the cracking of corn and the coarser grinding for other classes of livestock. It does an excellent job of preparing feed at remarkably low cost, and its big capacity with a minimum of power consumption is a surprise to every farmer who has seen it in operation.

### BUILT TO LAST

The John Deere is a sturdy, long-lived mill. The sides and ends of the mill are of boiler plate, securely welded and bolted together. This construction provides a rugged frame for supporting the main shaft and bearings. All operating parts are of high-grade materials, insuring low cost, trouble-free service.

### ROTOR SHAFT

The tough, high-carbon steel rotor shaft in the John Deere is 2 inches in diameter—amply strong for the most difficult grinding jobs. This shaft is a combined rotor and fan shaft, and it runs on heavy-duty New Departure ball bearings, which are equipped for Alemite grease-gun lubrication.

There are seven triangular mounting plates for the hammers on the rotor shaft. These plates are spaced between grey-iron collars which are 6 inches in diameter. The collars serve as stops for the base of the hammers and also act as a flywheel on the shaft.

### NEW-TYPE HAMMERS

The semi-rigid hammers used on the John Deere are provided with step cuts and sharp cutting edges. Unlike the ordinary hammers, they cut as they grind, thereby reducing the material faster and without the usual tendency to "sliver" fibrous material.

The three sets of hammers are so spaced that the entire area across the width of the mill is covered by hammer action. Spaced 120 degrees apart, the sets of hammers permit feeding various materials easily, which accounts for the large capacity.

The special heat-treated hammers are of highest-grade hard alloy-steel and they are reversible, to give double wearing life. After both cutting edges are worn, they can be resharpened and their effectiveness renewed. This insures a long-lived trouble-free hammer.

### SCREENS

The John Deere Hammer Mill is regularly furnished with two screens, one with  $\frac{1}{8}$ -inch round punching and the other with  $\frac{1}{2}$ -inch square punching. Round-hole screens in  $\frac{1}{20}$ -inch,  $\frac{1}{16}$  inch,  $\frac{3}{32}$ -inch,  $\frac{3}{16}$ -inch,  $\frac{3}{8}$ -inch and  $\frac{1}{4}$ -inch sizes, and square-hole screens in  $\frac{11}{16}$ -inch and 1-inch sizes can be furnished.

Screens can be quickly and easily changed. Simply loosen the two hand wheels holding the mill top to the base, tip the top back, remove the screen lock and breaker bar, and lift out the screen. Screens slide easily in the grooves, and it's only a minute's job to change them.

The breaker bar, combined with the screen lock, causes feed to be broken up more rapidly and into finer particles.

### POWERFUL FAN

The extra heavy steel fan housing is built onto the main frame of the mill and the fan is mounted on the rotor shaft. The three-blade fan is powerful enough to elevate ground material 60 feet high, if necessary.

### FEED COLLECTOR AND TRIPOD

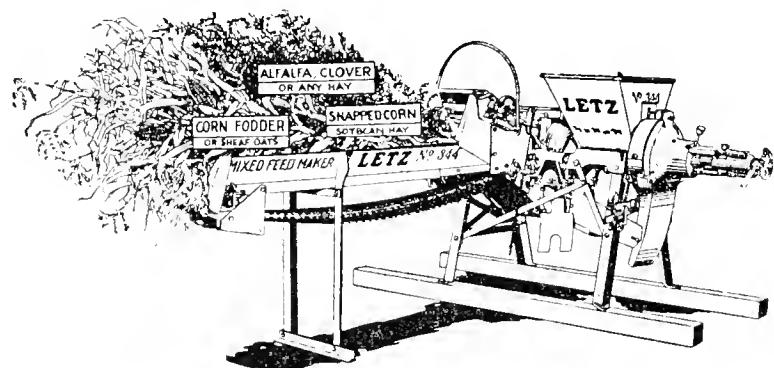
The dust-tight feed collector is equipped with a double sacking spout for sacking feed on the barn floor or ground. A handy damper controls the air intake into the collector, preventing too much blast from going into the bags or wagon.

A heavy channel steel tripod supports collector.

### POWER REQUIRED

The John Deere can be operated up to its maximum capacity with a John Deere Model A Tractor or any other tractor of similar H.P. rating. When smaller tractors are used, the same quality of grinding is maintained at only slightly reduced capacities.

## LETZ ROUGHAGE MILLS



The Letz roughage mill cuts, mixes and grinds grains, hays, straws, fodders, any feed crop, bundled or otherwise. Turns the whole crop into money saving feed.

It is a cutter, recutter, crusher, grinder and mixer combined. It is a grain grinder, an ear corn crusher plus a roughage cutter, recutter and mixer, the entire product being discharged from cutter head and grinding plates.

This combination does everything that a hopper mill will do, everything that a cutter and recutter will do plus selecting and mixing feeds in the proportion desired, at big capacity.

### Prices:

No. 130—Less Exhauster Fan.....	\$190.00
No. 230x—With Grain Separator.....	365.00
No. 210—Shuck Mill.....	58.50
No. 220—Heavy Duty Shuck Mill.....	78.50
No. 40—Letz Grinder.....	172.00

Send for Special Literature and Prices on Other Sizes.

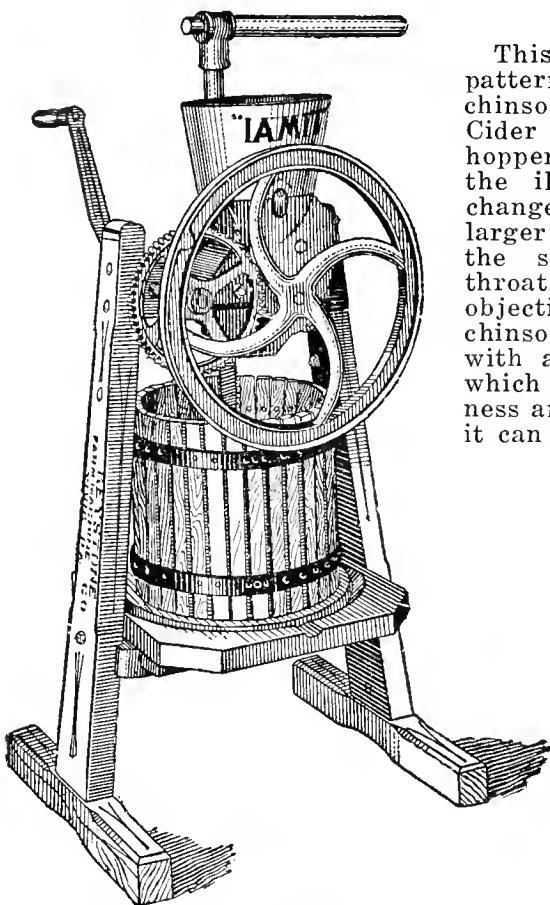
## BUCH'S HAND LEVER FEED CUTTER



This cutter is simple, durable, handsome and low priced. It has an 11-inch tempered curved knife, which can be adjusted to take up all wear, thus insuring a perfect shear cut at all times. Has gauge-plate adjustable to any length of cut up to 3 inches. Cuts either green or dry fodder.

Price \$7.25

## SINGLE CAGE CIDER MILL

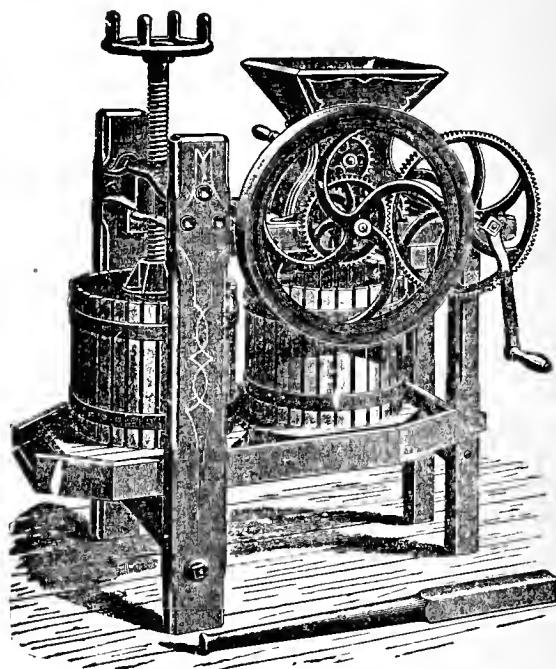


This is an improved pattern of the old Hutchinson Single-Cage Cider Mill. The enlarged hopper can be noticed by the illustration. This change is made to give a larger feed opening, as the small hopper and throat are the principal objections to the Hutchinson Mill. Equipped with a heavy fly wheel, which adds to the steadiness and ease with which it can be operated.

Price \$22.00

## DOUBLE-CAGE CIDER MILL

These mills are made in three sizes, Junior, Medium and Senior. Capacity of Junior, 2 to 4 barrels per day; Medium, 4 to 6 barrels per day.



## Senior

They have adjustable rollers and feed regulator and double crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the apples. Fruit is mashed between the smooth segments, thoroughly breaking all the cells so that cider is entirely extracted in press. Balance wheels are heavy, and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of cider per day. Weight 390 pounds.

## Prices:

Junior (small) . . . . .	\$30.00
Medium . . . . .	34.00
Senior (large) . . . . .	50.00

## MANN'S GREEN BONE CUTTER

(Latest Model)

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

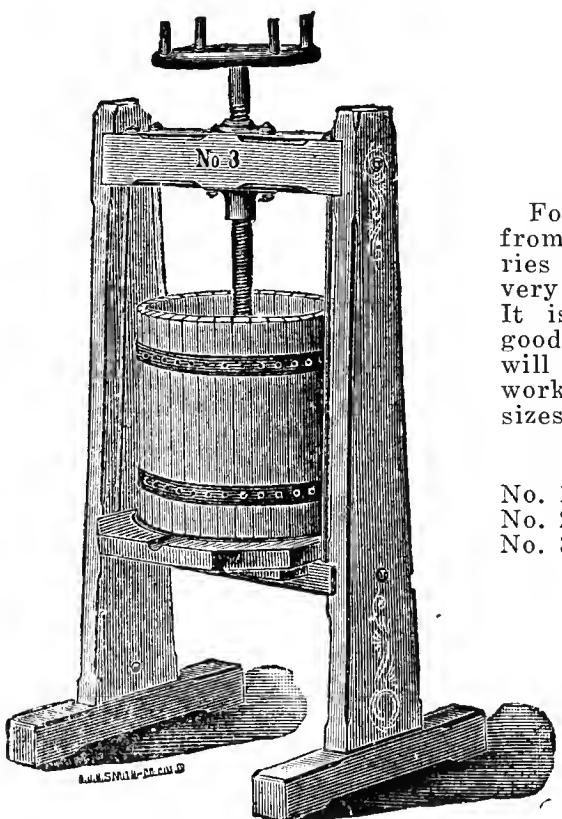
No. 5C—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight 35 pounds. \$12.00.

No. 5B—This machine is exactly the same as No. 5BM, except that it has not the iron stand. The capacity is the same. Weight 60 pounds. \$15.00.

No. 5BM—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. \$19.00.

No. 7—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight 700 pounds. Cylinder 7 $\frac{3}{4}$  inches in diameter, 5 $\frac{3}{4}$  inches deep. Capacity  $\frac{1}{2}$  to 1 pound per minute. \$19.75.

No. 9—Intended for large flocks of over 100 fowls. Capacity 100 pounds per hour. Horsepower required, 1 to 1 $\frac{1}{2}$ . Weight 215 pounds. Diameter of pulley 15 inches, 3 $\frac{1}{2}$ -inch face. Speed of pulley 300 to 350 revolutions per minute. \$30.00.



## BERRY PRESSES

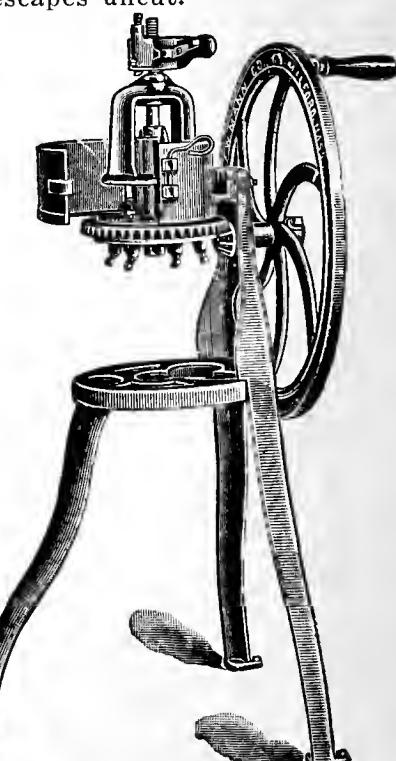
For pressing juice from grapes and berries for wine it is a very handy machine. It is well made, of good material, and will do satisfactory work. Made in three sizes.

## Prices:

No. 1 . . . . .	\$10.00
No. 2 . . . . .	13.00
No. 3 . . . . .	23.00

## ROPE, TWINE AND CORDS

$\frac{3}{8}$ -inch Manila Rope . . . . .	Per lb. \$ .25
$\frac{1}{2}$ -inch Manila Rope . . . . .	Per lb. .24
$\frac{7}{8}$ -inch Manila Rope . . . . .	Per lb. .23
$\frac{3}{8}$ -inch Cotton Rope . . . . .	Per lb. .35
$\frac{1}{2}$ -inch Cotton Rope . . . . .	Per lb. .35
2-ply Jute Twine ( $\frac{1}{2}$ pound Balls) . . . . .	Per lb. .25
3-ply Cotton Cord ( $\frac{1}{4}$ pound Balls) . . . . .	Per lb. .38
4-ply Cotton Cord ( $\frac{1}{4}$ pound Balls) . . . . .	Per lb. .38
6-ply Cotton Cord (2 $\frac{1}{2}$ pound Cones) . . . . .	Per lb. .38
Raffia for Tying Asparagus (1 to 5 pound Hanks) . . . . .	Per lb. .25
Asparagus Tape—Red (1,000 Yards to Spool) . . . . .	Per spool 1.75
21-ounce Fodder Yarn (25 and 50 lb. Spools) . . . . .	Per lb. .10



## AMERICAN BEAUTY WASHING MACHINE

Unquestionably the best Washing Machine made. Saves time, labor and backaches. Washes quicker and more thoroughly than any other machine made.

## SPECIFICATIONS—MODEL No. 5 ELECTRIC

TUB—Extra heavy cold drawn rust-resisting iron, covered with two coats Vitreous Enamel inside and out. Easily cleaned and perfectly sanitary.

CAPACITY—6 sheets, 22 inches in diameter, 13 inches high.

ALUMINUM AGITATOR—Improved submerged tapered post three-vane cast aluminum agitator having one-inch bearing on top and bottom, producing turbulent water action. Same efficient principle as others costing three times as much.

CENTER POST—Large, substantial and rust-proof.

FRAME—Extra heavy steel base with four steel legs. Braced like a bridge.

LID—Can be used for sorting table or starching tray.

MECHANISM—New fully enclosed gear case. Worm drive. Equalized pitman. All gears machine-cut, carefully fitted, running in a bath of oil. Two adjustment provisions.

DRIVE—Direct. Outside control.

MOTOR—Heavy-duty,  $\frac{1}{4}$  H. P. 100% over-load capacity.

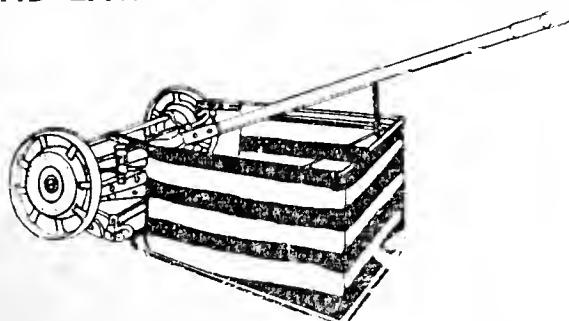
FINISH—Soft green stippled enamel tub. Trimmings, robin's egg blue.



## Prices:

No. 5 .....	\$52.50
No. 52 .....	55.00
No. 20 .....	99.00

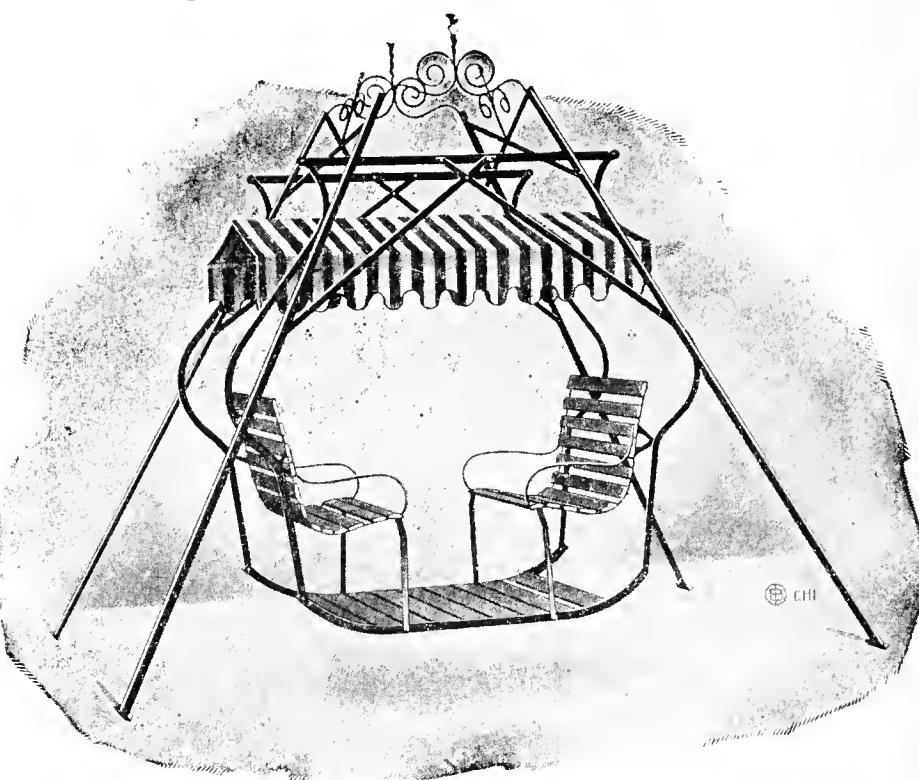
## HAND LAWN MOWER GRASS CATCHER



An up-to-date article; fastens on the handle bars; can be easily attached and adjusted. This Catcher should not be compared with cheap articles which are being offered.

Price 75c

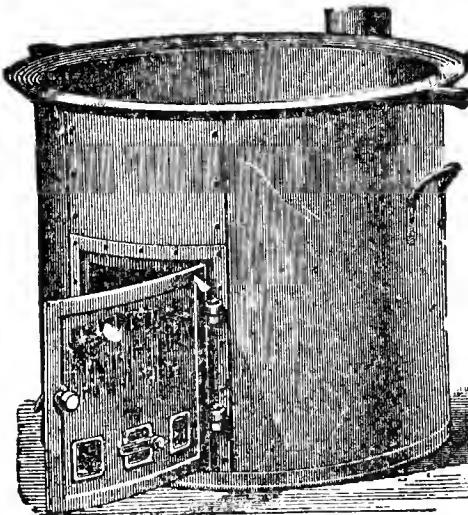
## STEEL FRAME LAWN SWING



This is an all steel high Swing, very strong and at the same time very neat. It has two large roomy seats, and will hold four passengers very comfortably. No jagged corners, no tilting motion; awning over seats. The best steel Swing on the market.

Price \$18.00

## Food Cooker and Boiler



These are used for cooking food, rendering lard, scalding hogs, poultry, making soap; very useful for boiling spray mixtures. Heavy, cold-rolled steel furnace, extra large feed door wrought iron handles, firmly riveted on furnace; kettles smooth and made of heavy cast iron, never buckling or warping from heat. Made to set on ground or brick foundation.

## Prices:

No. 1—24-gal.....	\$23.00	No. 3—37-gal.....	30.00
No. 2—30-gal.....	26.00	No. 4—45-gal.....	34.00

## LAWN BENCHES OR SETTEES



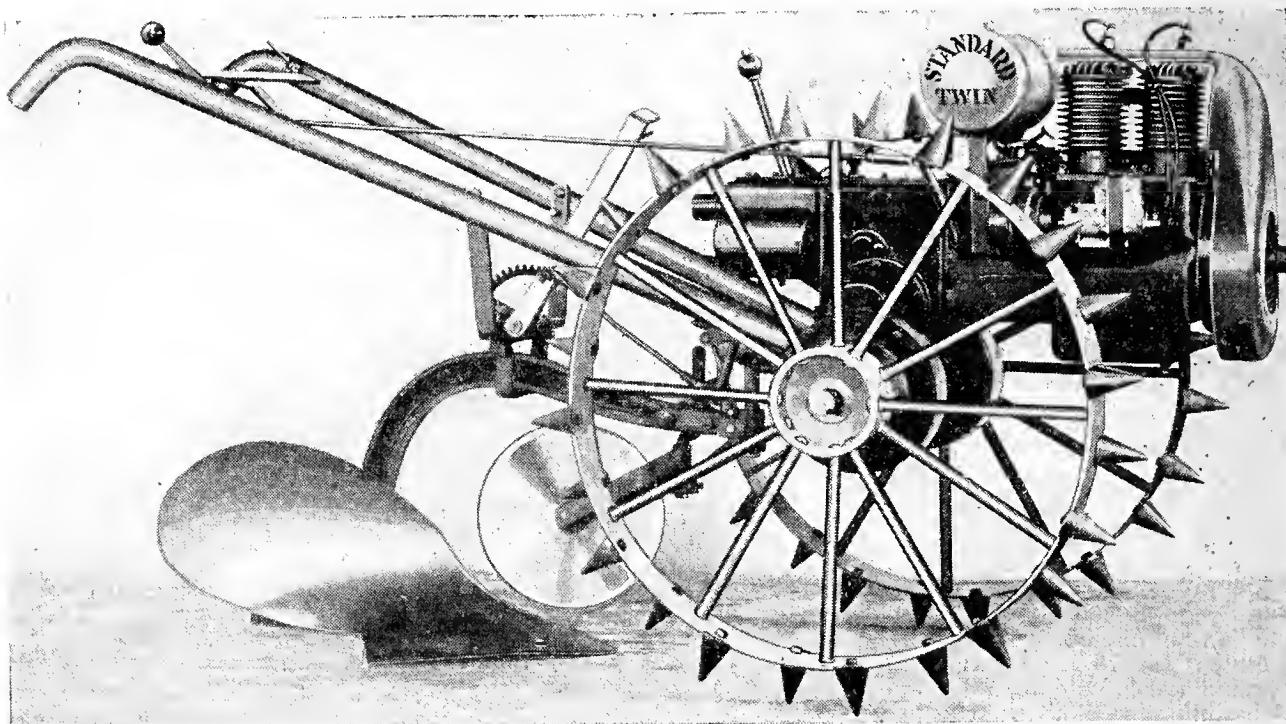
## CENTRAL PARK SETTEE

Very strong and exceedingly comfortable. 4 foot \$5.00, 5 foot \$5.50.

## BENT WOOD RED SETTEE

A strong, light, very comfortable and very ornamental Settee. 4 foot \$3.00, 5 foot \$3.25.

## STANDARD GARDEN TRACTOR



The illustration shows the "TWIN" with plowing attachment.

In meeting the need for compact power farming equipment, Standard now builds three sizes of tractors—the TWIN, the MONARCH and the WALSH—and we believe these latest Standard Models cover the complete field for the garden and small-farm tractor.

The New Standard "TWIN," with its 2 cylinders, 2 speeds and 5 H. P. engine, is built for the man with the larger acreage or extra severe conditions, who needs that excess capacity which only 2-cylinder power can give. It brings to the small tractor field that surplus of power and strength and smooth operation which have long been available to the big farmer—and in so doing marks a definite forward step in the progress of power on the small farm.

Of the Standard "MONARCH" little need be said. The

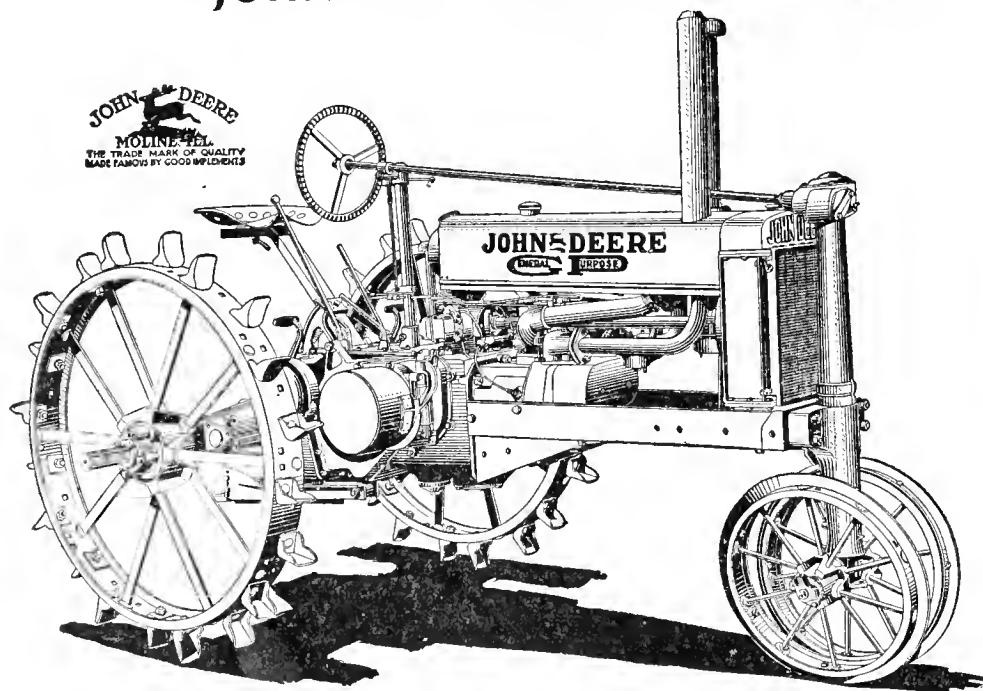
acclaim of thousands of friends bespeaks its merit more truly than can any words. Powered with the Standard-built 3½-H. P., 1-cylinder, heavy duty engine, the "MONARCH" Models have for years blazed the trail, in bringing the benefits and economies of modern power to the intensive grower. Tried and proved by thousands, from one end of the country to the other and in almost every nation of the world, the Standard "MONARCHS" stand secure on the reputation they themselves have built.

In the lighter "WALSH" Model, Standard presents a latest development of the well-known Walsh Tractor—a sturdy, low-cost machine that has gained wide approval from coast to coast.

(Descriptive catalogue and prices mailed upon request.)

## JOHN DEERE MODEL B GENERAL PURPOSE TRACTOR

### WITH ADJUSTABLE TREAD



#### Specifications

**Capacity:** One 16-inch or two 10-inch plows, 2-row planter or 2-row cultivator.

**Speed:** First, 2½; second, 3 1/3; third, 4 ¾; fourth, 6 ¾; reverse, 3 ¾ M. P. H.

**Crankshaft:** Main bearings, 2 ½ inches by 2 ½ inches. Connecting rod bearings, 2 ¼ inches by 2 inches.

**Lubrication:** Full force feed, pressure-geared pump with oil filter.

**Carburetor:** Double-jet type.

**Air Cleaner:** Wash down type with stack.

**Cooling:** Tubular radiator, thermo-siphon.

**Air Fan:** Gear driven, no belts; R. P. M. 1920; diameter 13 ½ inches.

**Governor:** Enclosed fly-ball type.

The Model B is an exact duplicate of the Model A, being approximately two-thirds its size. All of the features that make for practical, row-crop tractor perfection and economy that have been demonstrated in the Model A are included in the Model B. The Model B is powered with a simple, rugged, two-cylinder engine which makes possible simplicity and economy not obtainable elsewhere. The tread is adjustable on the rear axles from 56 inches to 80 inches, with any desired setting in between.

#### Burns Distillate

It will successfully burn distillate, fuel oil, and similar low-cost fuels at a tremendous saving when compared with the cost of gasoline or kerosene.

#### Enclosed Operating Parts Automatically Oiled

All of the important working parts are completely enclosed within a dust-proof case. Oil reservoirs are provided in the case. Parts operating in oil carry oil to all other parts within the case, insuring thorough lubrication.

**Clutch:** Two 8-inch dry disks locking in and out.

**Belt Pulley:** 10 ½-inch diameter; 6-inch face; 1150 R.P.M.

**Belt Speed:** Feet per minute, 3200.

**Transmission:** Spur gear, selective type, four speeds forward, one speed reverse.

**Gears:** Forged steel cut and heat treated.

**Fuel Tank Capacity:** 12 gallon gas.

**Water Capacity:** 5 ½ gallons.

**Over-All Length:** 122 inches.

**Width:** 85 inches.

**Height at Top of Radiator:** 56 inches.

**Turning Radius:** 8 feet.

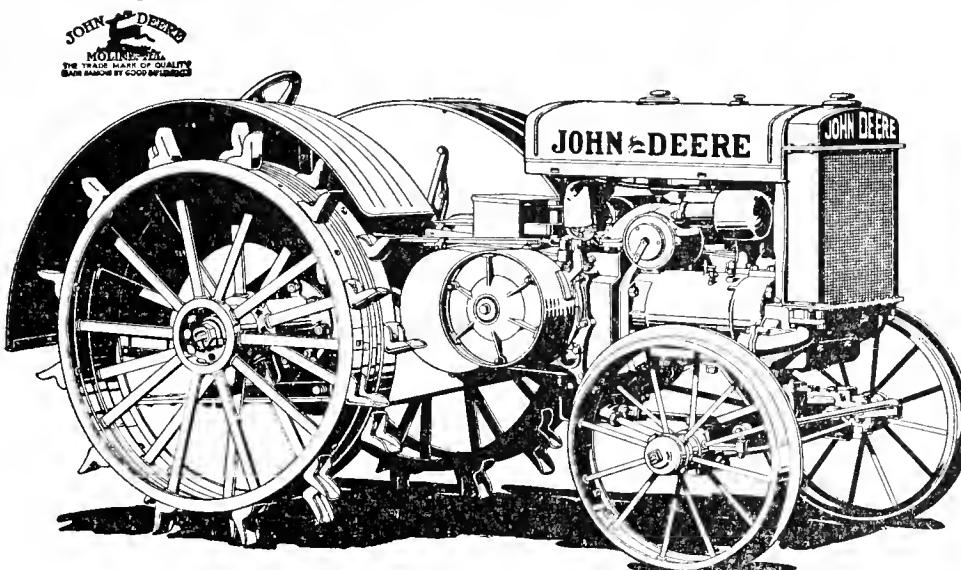
**Wheel Base:** 80 inches.

**Engine Bore and Stroke:** 4 ¼ inches by 5 ¼ inches.

**Weight:** 2,455 pounds.

WRITE FOR PRICE

## JOHN DEERE FARM TRACTOR



The John Deere Farm Tractor gives you all of the important features that go towards making power farming practical and profitable.

It has all-around farm adaptability; it has ample power to operate drawbar and belt machines of economical size; it is extremely simple, easy to understand and operate; its fewer but sturdier parts are fully enclosed and operate in oil—but for long life; it is easy to get at all parts and easy to make adjustments or repairs; its operating and maintenance costs are surprisingly low. This tractor carries the John Deere name which means uniformly high quality to all who are familiar with John Deere products.

MADE IN TWO SIZES—10-27 AND 15-27

SEND FOR SPECIAL CATALOGUE AND PRICES

## THE ENCLOSED ENGINE THAT OILS ITSELF

The John Deere farm engine is far ahead of its field in design and construction—it places the farm engine on a plane with other types of modern power machinery.

Users say, "John Deere is the greatest advancement ever made in farm engine building." It is a fact that no other farm engine has ever been designed with so many distinctive advantages.

The complete enclosure of its operating parts and its automatic oiling system, while outstanding features, are but two of the many improvements that make it a profitable investment for every farmer.

Take the time to read the following facts about this farm engine. You will recognize at once the reasons for its great success.

## All Vital Parts Completely Enclosed

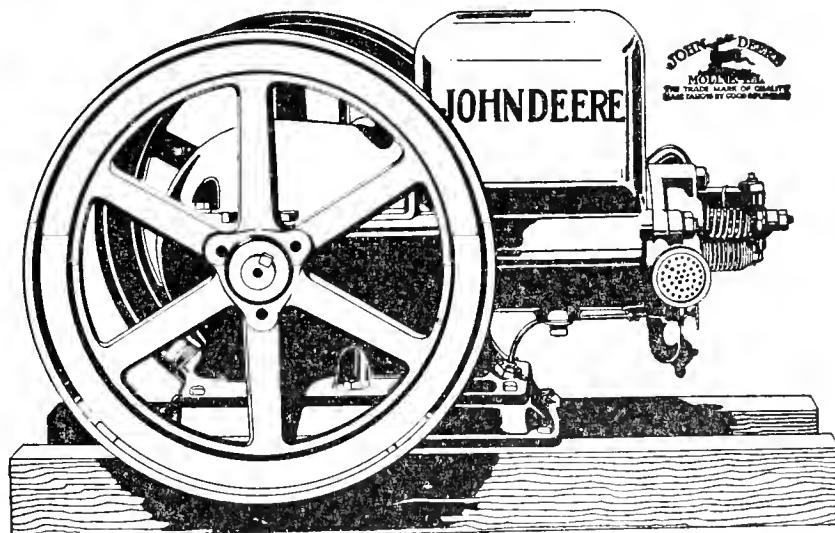
All the important parts—crankshaft bearings, connecting rod bearings, cylinder, governor, timing gears, etc.—are completely protected within a dust-proof housing.

There is no more opportunity for sand and other foreign matter to get into the vital parts of the John Deere than there is for such particles to get into the motor of your car.

Longer life, less repair expense and better service necessarily result from this advanced design.

## Governor Accurately Controls Speed

The John Deere operates on the hit-and-miss principle. By merely turning a hand nut located on the outside of crank case, the speed of the engine can be varied from one-half normal speed to ten per cent above normal speed



without stopping engine. The vital parts of the governor and the hook-up mechanism are hardened to resist wear. The governor is entirely enclosed within the dust-proof case and operates in a bath of oil.

## Engine Operates Without Vibration

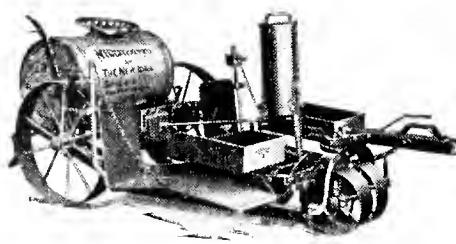
Smoothness of running is a feature that every user appreciates in the John Deere. Because the operating parts are carefully balanced, this engine runs without vibration at any speed.

## John Deere Type E Engine Specifications

H. P. Rated	SIZES AND SPECIFICATIONS				Standard Pulley Size, Inches Diameter, Face	Over-all Dimensions			Approximate Shipping Weight Lbs.	PRICE
	Normal Speed R. P. M.	Bore, Inches	Stroke, Inches	Length		Width	Height			
1 1/2	600	3 1/2	4 1/2	4 3/4 x 4	33"	21"	20"	226	\$70.00	
3	550	4 1/2	5 1/2	6 x 5	39"	25"	23"	338	105.00	
6	500	6	7	12 x 6	48"	33"	30"	698	179.25	

*Best by Every Test*

## THE NEW IDEA TRANSPLANTER



The New Idea Transplanter may be used for setting all kinds of plants that may be transplanted. This includes tobacco, tomatoes, cabbage, peppers, sweet potatoes and other truck crops, strawberries, small bush fruits, small trees, and all nursery stock.

The plant setters are located on comfortable seats in front of the driver who can thus supervise their work and regulate the speed of the machine according to their ability.

Each plant is set deep and at a uniform depth. The spacing is uniform and may be varied as desired. Each plant is watered at the time of setting; the water is deposited on the roots and at the bottom of the furrow. The soil is packed firmly and with uniform pressure about the roots and stems and the dry surface soil is brought close about the stem to form a mulch.

Resetting is seldom necessary, as the loss seldom runs over 2%. Plants begin to grow at once. Crops mature from 10 days to two weeks earlier than when set by other

methods, thus giving them the advantage of an earlier market and higher prices. Production is improved in quality and increased in quantity. Growers claim that the increase in production alone resulting from setting with the New Idea will more than equal the cost of the machine in a single season, even when not more than three acres are planted.

A driver and two plant setters can set from three to eight or more acres per day with the New Idea, doing as much work as 15 or 20 skilled plant setters working for the same length of time, and doing it better.

If you want to get better crops, get more to the acre and get better prices for your products, it will pay you to investigate the New Idea Transplanter.

### Price:

No. 5—Less Fertilizer Attachment.....	\$115.00
Fertilizer Attachment Extra.....	27.50

## BEMIS TRANSPLANTER

The machine can be thrown in and out of gear, greatly increasing its life. A ratchet clutch throws the mechanism out of gear when backing, saving water and avoiding breakage.

A strainer in the barrel prevents the valve from becoming clogged and the obstruction of free flow of water.

When in operation the front truck can be locked so machine will run straight on the row. This does away with the wobbling side motion experienced where swivel or castor rollers are used.

The wheels, 36 inches high, very strong, made with replaceable boxings and spokes, which can be easily replaced by any blacksmith in case of breakage. Wide tires reduce draft.

The droppers do not get off at the end of the row.

The tongue is joined like a wagon, so there is no weight on the necks of the horses.

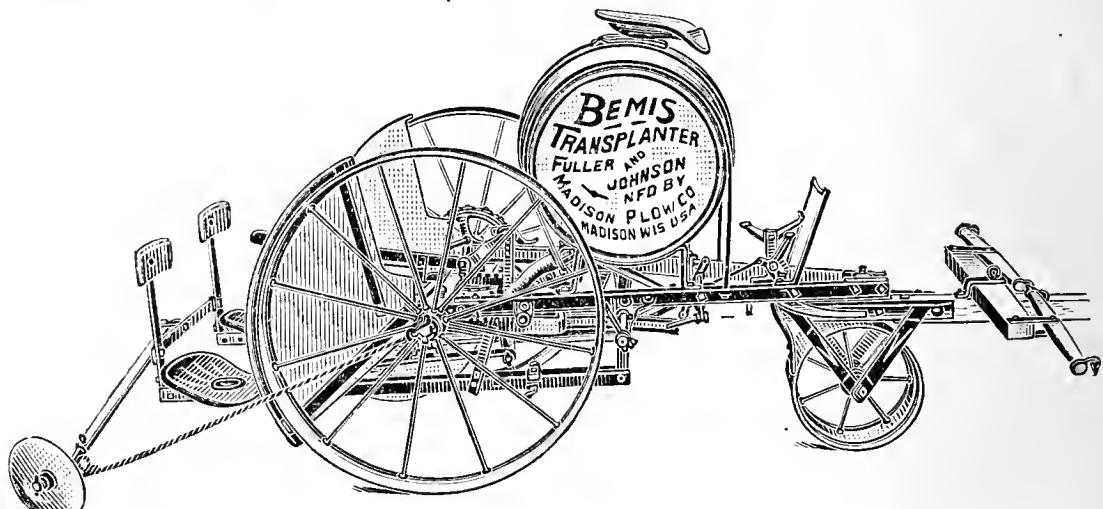
The entire machine is simple and very strong so that with proper care it will last for years. The grower is independent of labor and free from a lame back.

### SEND FOR SPECIAL CATALOGUE

This machine has revolutionized tobacco setting, as there are now practically no large tobacco growers in the United States who set their plants by hand. It is also extensively used by market gardeners, nurserymen, etc. The supply of water can be regulated as conditions require.

For planting on ridges we can furnish the machine with two-wheel front truck to straddle the ridge and adjustable axles to raise the machine to conform to the height of the ridge. These axles provide for a variation of 5 inches in height of the machine.

The plants can be set when they are ready, no matter how dry the ground. In hand setting plants are often set when the weather is suitable. As there need be no delay in planting on account of dry weather, the ground can be carefully prepared just before planting so as to kill all



the weeds. The planting is equal to once cultivating, as the machine stirs the ground in the row, killing the weeds. The roots are not doubled up, and the plants start better. Even pressure is obtained on uneven ground by means of the floating shoe and pressure plates, which are independent of the shoe and of each other. Spring pressure can also be applied from the lifting lever if desired. The earth is pressed about the plants by means of the hardened polished steel plates. The shoe is also made of hardened steel and finely polished.

### Prices:

With One Wheel Foretruck and Steel Barrel.

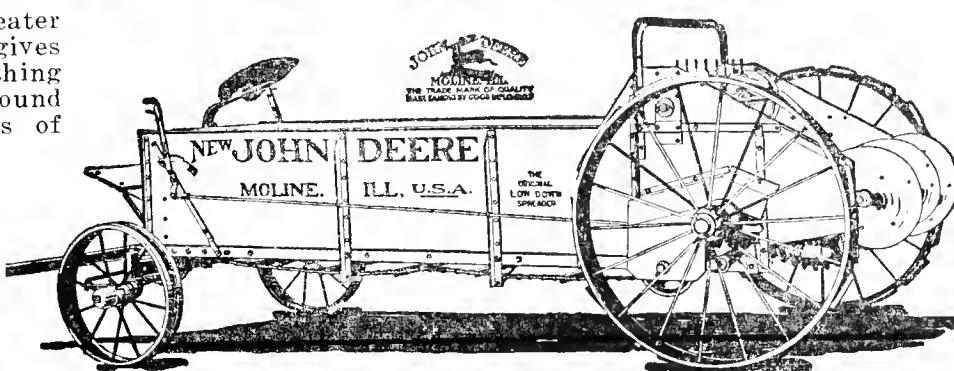
No. 1 Press Plates, runner.....	\$110.00
No. 2 Press Wheel, runner.....	110.00
Fertilizer Attachment .....	20.00
2-Wheel Front Truck .....	14.00
1-Wheel Front Truck .....	12.00
2-Wheel Front Truck instead regular.....	1.75
For Marker not wanted, deduct .....	1.50
Press-Wheel Attachment as extra.....	8.50
Steel Barrel with Collar and Gasket for extras.....	8.00
Check Row Attachment .....	27.50

## NEW JOHN DEERE (MODEL E) MANURE SPREADER

From the all-steel tongue to the wide-spread beater which won't wrap, the new John Deere Model E gives you everything you want in a spreader. Nothing has been spared in making it a better all-around value. A spreader that will give more years of profitable service on your farm.

### 9 ADVANCED FEATURES WHICH INSURE EASIER LOADING—EASIER PULLING BETTER WORK—LONGER LIFE

1. WIDE-SPREAD BEATER: Reduces wrapping, runs easier and smoother, and gives a wider and more even spread. Box scrapers keep sides clean.
2. BEATER ON THE AXLE: Permits higher drive wheels for easier pulling—a lower box for easier loading—makes possible fewer moving parts and sturdier construction. Beaters are close to the ground—winds do not cause drifting of manure.
3. LARGE, FOUR-BAR UPPER BEATER: Reduces wrapping, lightens draft and does a better job of shredding manure.
4. HARDENED STEEL ROLLER CHAIN DRIVE: More than twice as strong as ordinary drive chain—does not wear out sprockets, lasts longer and runs easier.
5. HIGH, WIDE-TIRED REAR WHEELS: Give same light-draft advantage that a high-wheeled wagon has over a low-wheeled wagon.
6. STRONGER, BETTER BOX: Finest quality wood, creosoted and painted to resist manure acids and the weather. Well braced to stand up under years of heavy service. Stands heavy twisting strains without bending out of shape.



7. FRONT END RIDES ON CUSHION SPRINGS: Springs absorb field and road shocks—add to comfort of driver and life to spreader.
8. NEW, EASY, SHORT TURN: Easy to handle in sheds and field lots.
9. STEEL POLE AND EVENERS: Will not break—eliminate costly replacements.

#### PRICES:

Model "E" with 2-horse eveners and neck yoke	\$165.00
Model "E" with 2-horse eveners and end gate	175.00
Model "E" with 3-horse eveners and neck yoke	167.50
Model "E" with 3-horse eveners and end gate	177.50
Model "E" with tractor hitch	165.00
Model "E" with tractor hitch and end gate	175.00
No. 1389 End Gate Attachment as extra	10.00
No. 1390 Lime Sower Attachment	17.00
No. 1391 Tractor Hitch Deere 4-wheel standard tread tractor	8.00
No. 1473 Tractor Hitch for Deere Models "A", "B" and wide-tread tractors	8.25
No. 1094 Beater Hood Attachment	3.00
No. 1457 Ratchet Foot Brake	9.50

## THE NEW IDEA MANURE SPREADER (Model 8)

The Model 8 NEW IDEA Spreader is the latest development of the original "wide-spreading" spreader, which was invented by the founder of the New Idea Spreader Company.

**Steel**—The steel used in the frame of the Model 8 is of the same quality as that used for car rails. New Idea steel is specially rolled and is still stronger, finer in grain, tougher in fibre and more induring. Government tests show that it is nearly three times as strong as the structural steel generally used for farm machines.

The shields, distributor blades and other flat metal parts are of copper bearing steel, resistant to rust and the acids of manure, and will wear longer and are more durable than the ordinary sheet steel generally used.

**Wood**—The bed of the Model 8 is built of the very finest grade of yellow pine, free from knots and checks. New Idea lumber is graded on both sides, while even the finest interior-finish lumber is graded on one side only.

The wide drive wheels are equipped with heavy channel-steel cleats and center lugs that guarantee perfect traction, prevent skidding and permit the machine to be used on soft or sloping ground and under other unusual conditions.

**The Conveyor**—An endless conveyor or specially designed heat-treated steel links runs over the tight bottom of the Model 8. The joints of the conveyor chain are rust-proof and always remain flexible and free-running even in the coldest weather. Angle steel bars mounted on the chain at regular intervals move the load back and keep the bottom cleaned. Tighteners are provided and strippers on the feed shaft keep the chain from wrapping.

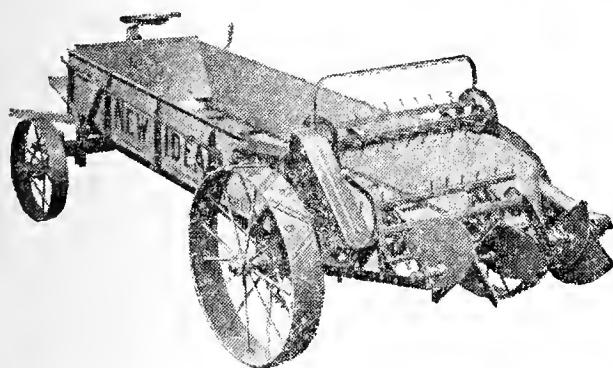
**Capacity**—The Model 8 is a two-horse spreader with three-horse capacity. The load may be varied from 50 to 70 bushels depending on the height of loading. Two horses can handle it easily under most farming conditions. A three-horse hitch may be had, if desired, at a small additional cost.

**Low-Down-Easy to Load**—The Model 8 is low down and easy to load. The sides are only 39½ inches from the ground and the space between the wheels is free from obstructions that might interfere with loading.

**High Clearance**—While the bed is unusually low, the space under it is exceptionally high, leaving a clearance of 16 inches.

#### Prices:

Model 8 with 2-Horse Hitch	\$180.00
Model 9 with 2-Horse Hitch	168.00
Brake extra	8.00
For 3-Horse Hitch	6.00



**Castings**—The few simple castings used on the Model 8 are of semi-steel, lighter in weight and much stronger and more durable than common castings. The simple design and the use of high-strength, light-weight materials is one of the chief reasons for the low cost of operating this machine.

**Riveted Frame**—The entire framework is riveted throughout and is in turn riveted to the body of the machine. There are no bolts to work loose and fall out, and the body cannot warp or fall apart after a few months' use.

**Tight-Box—Tapered Body**—The body of the machine is built of tongue-and-groove boards, each of which is painted before being joined. The box is 1½ inches wider in the rear than in front, thus reducing the friction and permitting the load to move easily to the rear.

**All-Steel Beaters**—The cylinders of the Model 8 are strongly built, properly timed and correctly adjusted to pulverize thoroughly and move the load with the least effort.

The diamond-pointed steel teeth are inserted through one leg of the angle steel bar and firmly riveted to the other leg. The teeth may be quickly and easily replaced.

**The Bottom**—The bottom is built of ship-lap boards of very fine-grained yellow pine. Each board is riveted to steel cross sills. After it is assembled the entire bottom receives an additional heavy coat of paint. The bottom of the Model 8 cannot warp or work loose.

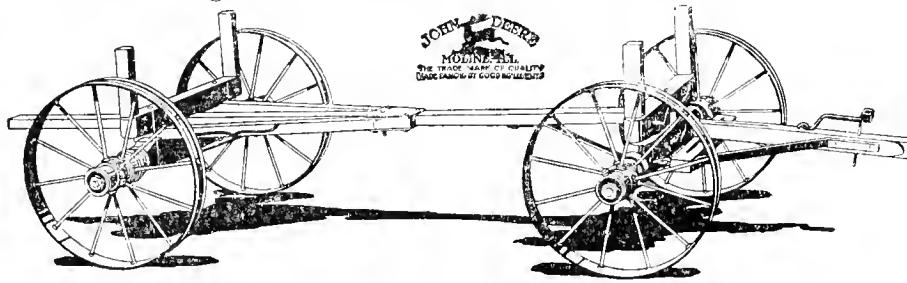
**The Wheels**—The wide, heavy rims of the New Idea wheels are electrically welded and the spokes are hot riveted, headed both on the inside and outside of the rim. The hubs of semi-steel are bored and reamed their entire length, making smooth running, correctly aligned wheels.

## JOHN DEERE WAGON — BUILT UP TO A GUARANTEE

Heavy Malleable Fifth Wheel Bolster Plate with Corrugated Coupling. Skeins, extra heavy, of Special Sand and Dustproof Pattern. Selected Hickory Axles; Extended Circle Irons; Square Wood Front Hounds; Full Clipped Gears; Full Size Reach. Bolster Stakes, 8 or 13 inch over all, with Rings; Heavy Malleable Pole Housing on Slip Tongue Wagons; Deep Hind Bolster; Singletree, Full Strap and Hook Pattern; Heavy Iron Reach Box

When you buy a John Deere Wagon you get more than merely an assembled product made to sell. You buy high-grade materials. You buy the skill of designers and builders who have given their work a lifetime of study. You buy many years of hauling service.

The John Deere organization controls the quality of every piece of material that goes into a John Deere Wagon. All parts are made in their own factory, under careful supervision and rigid inspection. The John Deere trademark on a wagon is assurance that the materials under



### Prices:

With Steel Wheels—28 inches front, 30 inches rear, 4"x $\frac{3}{8}$ " Grooved Tires	.....	\$42.50
With Wood Wheels—30 inches front, 36 inches rear, 3"x $\frac{3}{8}$ " Tires	.....	62.50
With Wood Wheels—30 inches front, 36 inches rear, 4"x $\frac{3}{8}$ " Tires	.....	67.50

If wanted with double trees and neck yoke add to price, \$4.00. Brake extra, \$8.50.

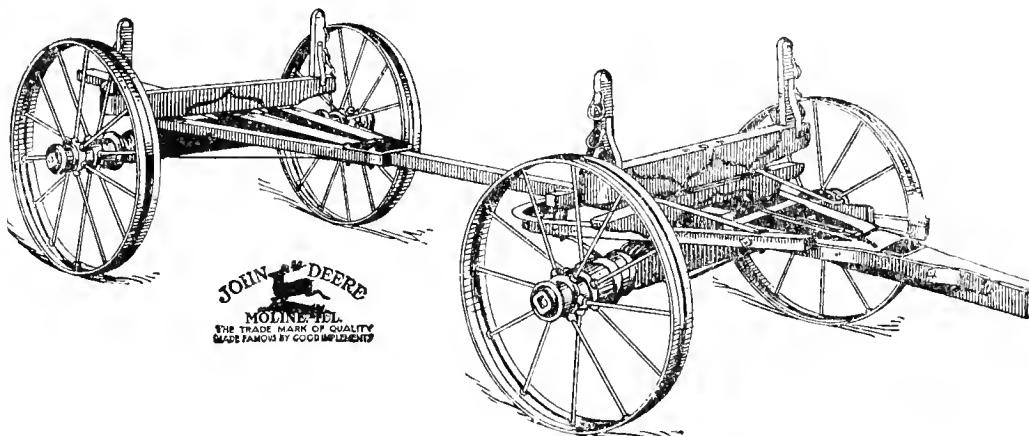
the paint, as well as the paint itself, are of good quality.

The quality to be found in a John Deere Wagon is representative of the quality that distinguishes the John Deere Plows and other equipment—quality that has enabled the John Deere organization to grow and prosper through nearly a century.

You will take pride in your purchase of a John Deere Wagon, not only in its appearance, but also in its strength, durability and light-running qualities.

## No. 100 CHIEF WOOD OR STEEL WHEEL FARM TRUCK

The material is of good quality, hard wood. Gears are rigidly braced and bolted. The hind hounds are of long, straight grain, well braced to rear axle. The reach plate is of heavy steel, full width. Full size reach. Removable bolster stakes fitted into steel pockets. Bolsters, extra heavy, with full-width bolster and axle plate. The skeins are of heavy pattern, individually set with correct pitch and gather. Size of skeins 3 $\frac{1}{4}$  inches by 10 inches. The pole is heavily braced to cross bar and securely bolted to front axle.



## RELIANCE FARM TRUCK

### WITH WOOD OR STEEL WHEELS

Made from selected first-class hard wood. Hickory axles. The gears are rigidly braced, fully clipped over bolster and axle. Heavy round truss rods. The front hound is of heavy angle steel, reinforced with wide oak filler extending from point of hound to rear of axle and sandboard. Bolsters ironed full length on top and around ends; bolster stakes, 11 inches over all, farm wagon style, with rings and side braces. Heavy drop pole, with farm wagon style of pole cap. Skein, heavy truss pattern, carefully set with correct pitch. Size of skein 3 $\frac{1}{4}$  inches by 10 inches.

### Prices:

#### (With Drop Pole)

With Steel Wheels—28 inches front, 32 inches rear, 4"x $\frac{3}{8}$ " Grooved Tires	.....	\$52.50
With Wood Wheels—30 inches front, 36 inches rear, 3"x $\frac{3}{8}$ " Tires	.....	70.00
With Wood Wheels—30 inches front, 36 inches rear, 4"x $\frac{3}{8}$ " Tires	.....	75.00

If wanted with double trees and neck yoke, add to price \$4.00. For stiff pole, add \$5.50. Brake, extra, \$8.50.

## FARM AND CONTRACT CARTS

### FARM CARTS

Farm Cart, Tubular Axle, 3"x $\frac{3}{8}$ " Tires	.....	\$70.00
Farm Cart, Tubular Axle, 4"x $\frac{3}{8}$ " Tires	.....	75.00
<b>CONTRACTOR CARTS</b>		
Farm Cart, Tubular Axle, 3"x $\frac{1}{2}$ " Tires	.....	\$80.00
Farm Cart, Tubular Axle, 4"x $\frac{1}{2}$ " Tires	.....	85.00

Our Carts are built of hardwood, good dry stock. Bodies have 6-inch top sides. Wood hub wheels. The sizes we mention are those most popular with our trade, but we can furnish any size desired. The Carts are nicely finished and handsomely painted. They have but to be seen in comparison with others to be appreciated.

*Best by Every Test*

## PLANTING, Maturity AND WEIGHT TABLE

This is for field planting, and where plants and roots are started, it is necessary to have them ready before-hand. The third column indicates the distance that the plants should stand in the rows, and where seed is sown they should be thinned out to this distance. The fifth column indicates maturity from the time plants are planted in the field or seed is sown in the field. Also note that the last column is the approximate weight of seeds and not products. Time of planting and maturity is for latitude of Baltimore, Md.

\*Indicates that the crop can either be planted in the Spring or Fall; if in the Spring, February to April; in the Fall, August and September.

	Time to Sow or Plant	Distance of Rows Apart	Distance of Plants in Rows	Quantity per Acre	Ready to Use	Approximate Weight of Seeds per bu. in lbs.
Alfalfa . . . . .	May to Sept.	Broadcast.	Broadcast .	20 lbs. . . . .	Next Year . . . . .	60
Artichoke—Tubers . . . . .	April to May	2½ ft.	2 ft. . . . .	6 to 8 bu. . . . .	Sept. to Oct. . . . .	50
Asparagus—Seeds . . . . .	April to May	15 in. . . . .	4 to 6 in. . . . .	8 to 10 lbs. . . . .	3 years . . . . .	60
Asparagus—Roots . . . . .	March to April	6 to 8 ft. . . . .	12 to 18 in. . . . .	4,000 to 7,000 . . . . .	2 years . . . . .	..
Beans—Dwarf . . . . .	April to Aug.	2½ ft. . . . .	4 to 6 in. . . . .	90 lbs. . . . .	8 weeks . . . . .	60
Beans—Navy . . . . .	May to June	2½ ft. . . . .	6 in. . . . .	45 to 60 lbs. . . . .	Winter . . . . .	60
Beans—Soja . . . . .	May to June	Broadcast. . . . .	Broadcast . . . . .	1 to 1½ bu. . . . .	Fall and Winter . . . . .	60
Beans—Pole . . . . .	May to June	4 ft. . . . .	3 ft. . . . .	40 lbs. . . . .	10 weeks . . . . .	60
Beets—Table . . . . .	March to July	12 to 18 in	4 in. . . . .	6 to 8 lbs. . . . .	1½ to 3 mos. . . . .	19½
Beets—Sugar . . . . .	April to June	2½ to 3 ft.	6 to 8 in. . . . .	5 to 6 lbs. . . . .	Fall and Winter . . . . .	19½
Buckwheat . . . . .	June to Aug.	Broadcast. . . . .	Broadcast . . . . .	1 bu. or 50 lbs. . . . .	Fall . . . . .	50
Cabbage—Plants (early) . . . . .	March to April	30 in. . . . .	15 to 20 in. . . . .	10,000 to 14,000 . . . . .	June and July . . . . .	54
Cabbage—Plants (late) . . . . .	July to Aug.	3 ft. . . . .	2 ft. . . . .	7,260 . . . . .	Fall and Winter . . . . .	54
Carrot . . . . .	April to June	1 to 2 ft. . . . .	3 to 4 in. . . . .	3 to 4 lbs. . . . .	45 to 70 days . . . . .	28
Cauliflower—Plants . . . . .	March to April	2½ ft. . . . .	2 ft. . . . .	8,000 to 10,000 . . . . .	3 months . . . . .	54
Celery—Plants . . . . .	June to Aug.	3 to 4 ft. . . . .	6 to 9 in. . . . .	15,000 to 30,000 . . . . .	4 to 5 months . . . . .	37
Clover—Red and Sapling . . . . .	Feb. to Sept.	Broadcast. . . . .	Broadcast . . . . .	8 to 10 lbs. . . . .	Next Year . . . . .	60
Clover—Alsike . . . . .	Feb. to Sept.	Broadcast. . . . .	Broadcast . . . . .	5 to 8 lbs. . . . .	Next Year . . . . .	60
Clover—Crimson . . . . .	July to Sept.	Broadcast. . . . .	Broadcast . . . . .	12 to 15 lbs. . . . .	May 1 . . . . .	60
Corn—Garden . . . . .	April to July	3 to 3½ ft.	9 to 15 in. . . . .	8 lbs. . . . .	2 to 3 months . . . . .	44 to 50
Corn—Field (drills) . . . . .	April to July	3½ to 4 ft.	10 to 18 in. . . . .	7 to 8 lbs. . . . .	3 to 4 months . . . . .	56
Corn—Field (checked) . . . . .	April to July	3½ to 4 ft	3½ to 4 ft	6 lbs. . . . .	3 to 4 months . . . . .	56
Cucumber . . . . .	April to July	4 to 5 ft.	4 ft.	2 lbs. . . . .	2 to 2½ months . . . . .	39
Egg Plant—Plants . . . . .	May to June	3 ft. . . . .	2½ to 3 ft.	5,000 to 6,000 . . . . .	60 days . . . . .	39
Endive . . . . .	August	18 in. . . . .	12 in. . . . .	4 to 5 lbs. . . . .	2 to 2½ months . . . . .	26
Grass Seeds—(Light) . . . . .	Feb. to Oct.	Broadcast. . . . .	Broadcast . . . . .	1½ to 2 bu. . . . .	Next Year . . . . .	14
Grass Seeds—(Lawn) . . . . .	Feb. to Oct.	Broadcast. . . . .	Broadcast . . . . .	100 to 125 lbs. . . . .	8 to 10 weeks . . . . .	20
Horseradish—Roots . . . . .	Feb. to March	2½ ft. . . . .	12 to 18 in.	12,000 to 15,000 . . . . .	6 to 8 months . . . . .	56
Kale—Spring . . . . .	Feb. to Sept.	Broadcast. . . . .	Broadcast . . . . .	6 to 8 lbs. . . . .	5 to 6 weeks . . . . .	56
Kale—Winter . . . . .	July to Sept.	Broadcast. . . . .	Broadcast . . . . .	3 to 4 lbs. . . . .	Fall to Spring . . . . .	54
Kohl Rabi—Plants . . . . .	April to May	1½ to 2 ft.	10 to 12 in.	21,000 to 34,000 . . . . .	2 ½ to 3 months . . . . .	56
Lettuce—Plants . . . . .	April to July	12 to 15 in.	6 to 8 in.	40,000 to 80,000 . . . . .	1½ to 2 months . . . . .	35
Melon—Musk . . . . .	May to July	4 to 6 ft.	4 to 6 ft.	2 lbs. . . . .	2 ½ to 3 months . . . . .	32
Melon—Water . . . . .	May to June	8 to 10 ft.	8 to 10 ft.	3 lbs. . . . .	3 months . . . . .	35
Millet—German . . . . .	May to July	Broadcast. . . . .	Broadcast . . . . .	1 bu. . . . .	6 to 7 weeks . . . . .	50
Mustard . . . . .	March to Sept	Broadcast. . . . .	Broadcast . . . . .	4 to 5 lbs. . . . .	6 to 8 weeks . . . . .	56
Oats—Spring . . . . .	March to April	Broadcast. . . . .	Broadcast . . . . .	1½ to 2 bu. . . . .	July 1 . . . . .	32
Oats—Winter . . . . .	Feb. to Sept.	Broadcast. . . . .	Broadcast . . . . .	1½ to 2 bu. . . . .	June 20 to July 10 . . . . .	32
Okra . . . . .	April to May	2½ to 3 ft.	8 to 10 in.	8 to 10 lbs. . . . .	60 to 70 days . . . . .	48
Onions—For large bulbs . . . . .	April to May	12 to 14 in	.. . . . .	4 to 5 lbs. . . . .	Aug. to Sept. . . . .	39
Onions—For sets . . . . .	April to May	10 to 12 in	.. . . . .	40 to 50 lbs. . . . .	Aug. to Sept. . . . .	39
Onion Sets . . . . .	March to May	12 in. . . . .	4 in.	15 to 16 bu. . . . .	July . . . . .	32
Parsley . . . . .	March to April	12 in. . . . .	4 to 6 in.	15 lbs. . . . .	July . . . . .	42
Parsnips . . . . .	March to April	18 in. . . . .	4 to 6 in.	5 to 7 lbs. . . . .	Fall and Winter . . . . .	18
Peas—Smooth . . . . .	Feb. to March	2½ to 3 ft.	.. . . . .	84 to 112 lbs. . . . .	7 weeks . . . . .	60
Peas—Wrinkled . . . . .	April to May	2½ to 3 ft.	.. . . . .	84 to 112 lbs. . . . .	7 to 9 weeks . . . . .	56
Peas—Canada Field . . . . .	Feb. to April	Broadcast. . . . .	Broadcast . . . . .	90 lbs. . . . .	June 15 . . . . .	60
Peas—Cow . . . . .	May to July	Broadcast. . . . .	Broadcast . . . . .	1½ bu. . . . .	3 months . . . . .	60
Pepper—Plants . . . . .	May 15 . . . . .	30 in.	15 to 18 in.	11,000 to 14,000 . . . . .	2 to 2½ months . . . . .	28
Potatoes—(Early) . . . . .	March to April	27 in.	10 to 12 in.	8 to 12 bu. . . . .	June to July . . . . .	60
Potatoes—(Late) . . . . .	July to August	30 in. . . . .	15 to 18 in.	8 to 10 bu. . . . .	Oct to Nov. . . . .	60
Sweet Potatoes—Plants . . . . .	May 15 . . . . .	3 ft.	20 to 24 in.	7,000 to 8,000 . . . . .	Sept. to Winter . . . . .	45
Pumpkin . . . . .	May . . . . .	8 to 10 ft.	8 to 10 ft.	2 lbs. . . . .	Fall . . . . .	24
Radish . . . . .	March to Aug.	10 to 15 in	3 in. . . . .	8 to 10 lbs. . . . .	24 to 40 days . . . . .	56
Rape . . . . .	Feb. to Sept.	Broadcast. . . . .	Broadcast . . . . .	6 to 8 lbs. . . . .	6 to 8 weeks . . . . .	56
Rhubarb—Roots . . . . .	March to April	4 ft.	2 to 3 ft.	5,000 to 7,000 . . . . .	Next Year . . . . .	56
Rye . . . . .	Aug. to Nov.	Broadcast. . . . .	Broadcast . . . . .	1 to 2 bu. . . . .	April 20 . . . . .	56
Salsify . . . . .	March to April	1½ to 2 ft.	3 to 4 in.	6 to 8 lbs. . . . .	Fall and Winter . . . . .	18
Spinach—Early . . . . .	*Feb. to Sept.	Broadcast.	Broadcast . . . . .	15 to 20 lbs. . . . .	8 Weeks . . . . .	48
Squash—Spring . . . . .	May . . . . .	4 ft.	3 ft. . . . . .	3 lbs. . . . .	July . . . . .	26
Squash—Winter . . . . .	May to June	6 to 8 ft.	6 to 8 ft.	2 lbs. . . . .	Fall and Winter . . . . .	22
Teosinte . . . . .	May to June	3 to 3½ ft.	8 to 10 in.	3 to 5 lbs. . . . .	Aug. to Oct. . . . .	46
Tobacco—Plants . . . . .	May to June	3 to 3½ ft	2½ to 3 ft	4,800 to 5,000 . . . . .	Sept. to Oct. . . . .	35
Tomato—Plants . . . . .	May to July	4 ft.	3 to 4 ft.	2,700 to 3,600 . . . . .	July until frost . . . . .	20
Turnip . . . . .	March to Sept.	Broadcast . . . . .	Broadcast . . . . .	1½ to 2 lbs. . . . .	1½ to 2 months . . . . .	56
Vetch . . . . .	Aug. to Oct.	Broadcast . . . . .	Broadcast . . . . .	50 lbs. . . . .	May . . . . .	50
Wheat . . . . .	Sept. to Oct.	Broadcast . . . . .	Broadcast . . . . .	1 to 1½ bu. . . . .	July 1 . . . . .	60

AFTER THE EARLY CROP IS OVER, PLANT A LATE CROP FOR WINTER USE  
INSURE YOUR GARDEN WITH WISEMAN-DOWNS SEEDS

We will deliver by parcel post, prepaid, to any post office within the third zone, or within a radius of three hundred miles of Baltimore, Md., all Vegetable and Flower Seeds by the Packet, Ounce, Quarter Pound, Half Pound, Pound, Pint and Quart, at prices quoted in this catalogue. Above these quantities the purchaser pays transportation.

Postal weight on Peas, Beans and Corn approximately one pound to pint.

PARCEL POST RATES

Weight in pounds	Local	ZONES							
		1st, up to 50 miles	2nd, 50 to 150 miles	3rd, 150 to 300 miles	4th, 300 to 600 miles	5th, 600 to 1,000 miles	6th, 1,000 to 1,400 miles	7th, 1,400 to 1,800 miles	8th, over 1,800 miles
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.08	.10	.10	.11	.14	.17	.19	.23	.26
3	.08	.11	.11	.13	.17	.22	.26	.32	.37
4	.09	.12	.12	.15	.21	.27	.33	.41	.48
5	.09	.13	.13	.17	.24	.33	.40	.50	.59
6	.10	.14	.14	.19	.28	.38	.47	.59	.70
7	.10	.15	.15	.21	.31	.43	.54	.68	.81
8	.11	.16	.16	.23	.35	.49	.61	.77	.92
9	.11	.17	.17	.25	.38	.54	.68	.86	1.03
10	.12	.18	.18	.27	.42	.59	.75	.95	1.14
11	.12	.19	.19	.29	.45	.64	.82	1.04	1.25
12	.13	.21	.21	.31	.49	.70	.89	1.13	1.36
13	.13	.22	.22	.33	.52	.75	.96	1.22	1.47
14	.14	.23	.23	.35	.56	.80	1.03	1.31	1.58
15	.14	.24	.24	.37	.59	.86	1.10	1.40	1.69
16	.15	.25	.25	.39	.63	.91	1.17	1.49	1.80
17	.15	.26	.26	.41	.66	.96	1.24	1.58	1.91
18	.16	.27	.27	.43	.70	1.02	1.31	1.67	2.02
19	.16	.28	.28	.45	.73	1.07	1.38	1.76	2.13
20	.17	.29	.29	.37	.77	1.12	1.45	1.85	2.24
21	.17	.30	.30	.49	.80	1.17	1.52	1.94	2.35
22	.18	.32	.32	.51	.84	1.23	1.59	2.03	2.46
23	.18	.33	.33	.53	.87	1.28	1.66	2.12	2.57
24	.19	.34	.34	.55	.91	1.33	1.73	2.21	2.68
25	.19	.35	.35	.57	.94	1.39	1.80	2.30	2.79
26	.20	.36	.36	.59	.98	1.44	1.87	2.39	2.90
27	.20	.37	.37	.61	1.01	1.49	1.94	2.48	3.01
28	.21	.38	.38	.63	1.05	1.55	2.01	2.57	3.12
29	.21	.39	.39	.65	1.08	1.60	2.08	2.66	3.23
30	.22	.40	.40	.67	1.12	1.65	2.15	2.75	3.34
31	.22	.41	.41	.69	1.15	1.70	2.22	2.84	3.45
32	.23	.43	.43	.71	1.19	1.76	2.29	2.93	3.56
33	.23	.44	.44	.73	1.22	1.81	2.36	3.02	3.67
34	.24	.45	.45	.75	1.26	1.86	2.43	3.11	3.78
35	.24	.46	.46	.77	1.29	1.92	2.50	3.20	3.89
36	.25	.47	.47	.79	1.33	1.97	2.57	3.29	4.00
37	.25	.48	.48	.81	1.36	2.02	2.64	3.38	4.11
38	.26	.49	.49	.83	1.40	2.08	2.71	3.47	4.22
39	.26	.50	.50	.85	1.43	2.13	2.78	3.56	4.33
40	.27	.51	.51	.87	1.47	2.18	2.85	3.65	4.44
41	.27	.52	.52	.89	1.50	2.23	2.92	3.74	4.55
42	.28	.54	.54	.91	1.54	2.29	2.99	3.83	4.66
43	.28	.55	.55	.93	1.57	2.34	3.06	3.92	4.77
44	.29	.56	.56	.95	1.61	2.39	3.13	4.01	4.88
45	.29	.57	.57	.97	1.64	2.45	3.20	4.10	4.99
46	.30	.58	.58	.99	1.68	2.50	3.27	4.19	5.10
47	.30	.59	.59	1.01	1.71	2.55	3.34	4.28	5.21
48	.31	.60	.60	1.03	1.75	2.61	3.41	4.37	5.32
49	.31	.61	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.32	.62	.62	1.07	1.82	2.71	3.55	4.55	5.54
51	.32	.63	.63						
52	.33	.65	.65						
53	.33	.66	.66						
54	.34	.67	.67						
55	.34	.68	.68						
56	.35	.69	.69						
57	.35	.70	.70						
58	.36	.71	.71						
59	.36	.72	.72						
60	.37	.73	.73						
61	.37	.74	.74						
62	.38	.76	.76						
63	.38	.77	.77						
64	.39	.78	.78						
65	.39	.79	.79						
66	.40	.80	.80						
67	.40	.81	.81						
68	.41	.82	.82						
69	.41	.83	.83						
70	.42	.84	.84						

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL,  
AND QUANTITY USUALLY SOWN PER ACRE

Weight per Bushel.	Pounds per Acre.
14 lbs. Awnless Brome	.35 to 40 lbs.
60 lbs. Alsike, alone	6 lbs.
60 lbs. Alfalfa or Lucerne	20 lbs.
48 lbs. Barley, broadcast	2 bus.
.. lbs. Broom Corn, in hills	6 to 8 qts.
48 lbs. Buckwheat, broadcast	1 bus.
21 lbs. Crested Dog's Tail	25 lbs.
20 lbs. Creeping Bent	50 lbs.
60 lbs. Crimson Clover	15 to 20 lbs.
56 lbs. Corn, for soiling	1 to 2 bus.
24 lbs. English Rye or Perennial Rye	50 lbs.
20 lbs. Evergreen Lawn	3 to 4 bus.
56 lbs. Flax, for seed	1 bus.
.. lbs. Flax, for fiber	2 to 3 bus.
56 lbs. Field Corn, in hills	4 qts.
50 lbs. German Millet	50 lbs.
48 lbs. Hungarian Millet	48 lbs.
44 lbs. Hemp	22 lbs.
20 lbs. Italian Rye	50 lbs.
14 lbs. Kentucky Blue	38 lbs.
22 lbs. Meadow Fescue	50 lbs.
7 lbs. Meadow Foxtail	30 lbs.
14 lbs. Orchard Grass	42 lbs.
32 lbs. Oats, broadcast	2 to 2½ bus.
10 lbs. Red Top, chaff	.40 to 50 lbs.
14 lbs. Red Top, unhulled	30 to 40 lbs.
32 lbs. Red Top, fancy	6 to 8 lbs.
60 lbs. Red Clover	15 lbs.
56 lbs. Rye, broadcast	1 bus.
12 lbs. Sheep Fescue	30 lbs.
48 lbs. Sorghum, drills	4 qts.
.. lbs. Sorghum, broadcast	8 qts.
10 lbs. Tall Meadow Oat	50 lbs.
45 lbs. Timothy, alone	¼ bus.
.. lbs. Timothy, with other grasses	8 lbs.
Together for an acre	
.. lbs. Red Clover	8 lbs.
.. lbs. Timothy	10 lbs.
.. lbs. Red Top	14 lbs.
.. lbs. Teosinte, in hills	1 to 3 lbs.
60 lbs. Vetches, broadcast	1 bus.
14 lbs. Wood Meadow	30 lbs.
60 lbs. White Clover, alone	6 lbs.
.. lbs. White Clover, with other grasses	3 lbs.
60 lbs. Wheat, broadcast	1½ to 2 bus.
.. lbs. Wheat, in drills	1½ to 2 bus.

VEGETABLE SEED TABLE  
THE QUANTITY OF SEED USUALLY  
SOWN TO AN ACRE

Asparagus	5 lbs.
Beans, dwarf in drills	1 bu.
Beans, pole in hills	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Cabbage, in beds, to transplant	¼ lb.
Carrot, in drills	2 to 3 lbs.
Celery, to transplant	½ lb.
Corn, in hills (sugar)	4 qts.
Kale	4 to 6 lbs.
Melon, musk	1½ to 2 lbs.
Melon, water	2 to 3 lbs.
Mustard, broadcast	12 to 16 lbs.
Mangel wurzel	4 to 6 lbs.
Onions, in drills to make large onions	6 to 8 lbs.
Onion Seeds, for small sets	40 to 60 lbs.
Parsnips, in drills	4 to 6 lbs.
Peas, early, in drills	1¼ bus.
Peas, Marrowfat, in drills	1¼ bus.
Peas, broadcast	2 to 3 bus.
Potato, cut tubers in drills	8 to 11 bus.
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 lbs.
Salsify, in drills	6 to 8 lbs.
Spinach, in drills	12 to 20 lbs.
Squash, bush varieties, in hills	4 to 6 lbs.
Squash, running varieties, in hills	3 to 4 lbs.
Turnip, in drills	1 lb.
Turnip, broadcast	2 lbs.
Tomato, to transplant	¼ lb.



# FERTILIZERS



## ESSKAY

### QUALITY PLANTFOOD

A complete organic fertilizer consisting of blood, bonemeal, tankage and potash scientifically blended for Flowers, Lawns, Vegetables, Trees and Shrubs. It is economical, NON BURNING, and pleasant to use. It builds up the soil and leaves no acid residue. Approved and recommended by Florists, Nurserymen, and Gardeners everywhere.

#### PRICES

100 Lb. Bags	\$3.50 Per Bag
50 Lb. Bags	2.35 Per Bag
25 Lb. Bags	1.50 Per Bag
10 Lb. Bags	.75 Per Bag
2 Lb. Bags	.25 Per Bag
	65.00 Per Ton

### ASHES—HARD WOOD

Potash content very high, extensively used in greenhouse soil for potting. 25 lbs. \$1.00, 100 lbs. \$3.00.

### ALUMINUM SULPHATE

For rhododendrons and azaleas. 1 lb. 10c, 5 lbs. 30c, 100 lbs. \$4.00.

### BACTERIA FOR LEGUMINOUS CROPS

See nitragin page 40.

### BLOOD—DRIED

Very quick in action. Excellent for roses and other garden flowers. Also extensively used in greenhouses. 5 lbs. 50c, 10 lbs. 80c, 50 lbs. \$3.50, 100 lbs. \$6.00.

### BLOOD, BONE and POTASH—4-8-4

Excellent for all kinds of truck, such as beans, peas, tomatoes, etc. Use from 500 to 800 pounds per acre. 5 lbs. 25c, 10 lbs. 45c, 167 lb. bag \$2.75.

### BONE FLOUR

Very fine and bolted. Acts almost immediately. Rich in phosphoric acid and ammonia. Exceptionally good for roses. 5 lbs. 50c, 10 lbs. 80c, 25 lbs. \$1.50, 100 lbs. \$5.00.

### BONE MEAL

Made from pure raw bone. Unusually rich in nitragin and phosphoric acid. Especially recommended for lawns and flowers. 5 lbs. 25c, 25 lbs. \$1.00, 100 lbs. \$3.00.

### COW or CATTLE MANURE

Very good for roses. Convenient to handle. Especially suited for soil mixing. 5 lbs. 30c, 25 lbs. \$1.00, 100 lbs. \$3.50, ton \$55.00.

### KAINIT (Potash Salts)

Excellent for potatoes, corn and other grains; also for top dressing asparagus beds. 200 lb. bag \$2.50.

### LAND PLASTER

Used for top dressing newly plowed land, prior to harrowing; also used for mixing with Paris Green. 100 lb. bag \$1.25.

### LIME (Hydrated)

Fine for spreading on lawns to sweeten the soil; also has a tendency to prevent the growth of weeds. 50 lb. bag 75c, 500 lbs. \$5.00, ton \$18.00.

### MURIATE OF POTASH

For mixing with other fertilizers. Used at rate of 100 to 150 pounds per acre. Analysis equal to 50% actual potash. 5 lbs. 40c, 25 lbs. \$1.50, 100 lbs. \$5.00.

### NITRATE OF SODA

Apply 100 to 150 pounds per acre, mixing with land plaster or other fertilizers, to render application more easy. Used only after plants are above ground. If used in liquid form, dilute 2 ounces to one gallon of water, and do not apply oftener than twice a week. 5 lbs. 40c, 10 lbs. 75c, 100 lbs. \$3.00.

### PEAT MOSS (Imported)

Highest grade, clean and free from dirt or other refuse. Excellent for mulching flower beds of all kinds, shrubs, evergreens, lawns, hotbeds, etc. Conserves moisture. Price, No. 1 pkg., 3 qts. 10c; No. 2 pkg., 1½ pks. 25c; No. 3 pkg., 1 bu. 50c; No. 4 pkg., 3 bu. 75c; large bale, about 20 bu., \$2.25.

### PERUVIAN GUANO SUBSTITUTE—5-8-5

A high grade fertilizer, especially adapted to growing potatoes and other truck crops. 5 lbs. 25c, 10 lbs. 45c, 167 lb. bags \$3.00.

### PLANTABBS or ODORLESS PLANT FOOD IN TABLET FORM

For all plants in the house or garden. They dissolve in water almost instantly and make a wonderful liquid fertilizer. Pkg. 30 tablets 25c, 75 tablets 50c, 200 tablets \$1.00, 1,000 tablets \$3.50.

### SALT (Coarse)

For asparagus beds and putting on road and walks to kill weeds. Apply 800 pounds per acre in early Spring. 10 lbs. 25c, 50 lbs. 75c, 100 lb. bag \$1.25, 200 lb. bag \$2.25.

### SHEEP MANURE

Apply 1,000 pounds per acre. One of the most extensively used of animal manures. For garden, lawn or greenhouse use. Clean and easy to handle. 5 lbs. 25c, 10 lbs. 45c, 25 lbs. \$1.00, 100 lbs. \$2.75.

### SULPHATE OF AMMONIA

Lb. 10c, 5 lbs. 30c, 10 lbs. 45c, 100 lbs. \$3.00.



# WISDOM EVERGREEN LAWN GRASS



Our "WISDOM" EVERGREEN LAWN GRASS is a mixture of grasses that are adapted to lawn making. No one grass makes an ideal lawn grass, so we have put into our "Wisdom" Evergreen a well-balanced mixture of grasses that are at their best during different months of the year and will make a rich, deep green, velvety lawn in as short a time as possible. The seeds are tested for purity and germination by the United States Department of Agriculture and by ourselves, and will be found of highest quality and should not be confounded with the cheap, chaffy grasses offered at a lower price.

1 lb. 30c 2 lbs. 55c 5 lbs. \$1.30 10 lbs. \$2.25 20 lbs. (1 bu.) \$4.00

**PARK LAWN GRASS.**—For those desiring a cheaper grade of Lawn Grass, this will be a very excellent mixture, though, of course it does not contain all the high-grade seeds which are used in the "Wisdom" grass. 1 lb. 25c, 5 lbs. \$1.00, 20 lbs. (1 bu.) \$3.50.

**TERRACE SOD MIXTURE.**—This mixture is composed of deep rooting grasses and will give satisfactory results, unless terrace is very steep. 1 lb. 30c, 5 lbs. \$1.30, 20 lbs. (1 bu.) \$4.00.

**SHADY NOOK LAWN GRASS.**—In this mixture we use a large proportion of Red Fescue and Poa Trivialis which are best adapted for shady places and unless it is a very dense shade, this will give the very best results. 1 lb. 30c, 5 lbs. \$1.30, 20 lbs. (1 bu.) \$4.00.

**WHITE DUTCH CLOVER.**—For lawns. Makes a small compact growth, covering the ground like a carpet. Sow either in the spring or fall. 1 lb. 40c, 5 lbs. \$1.75, 10 lbs. \$3.00.